Mobile Printer

iMOVE 3

USER MANUAL

Rev.1.1

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Caution Symbol

	Never touch the thermal head immediately after the printer has been used. Let the thermal head cool for a few minutes before touching it.
	This symbol is indicate that it is easily damaged. Observe the precautions for handling electrostatic sensitive devices.

Safety Precautions

Please be sure to read

To use this product in safety, please follow the precautions given below.

⚠WARNING

- ✓If you notice smoke, a strange smell, or a strange sound, turn off the power immediately, and remove the USB cable and/or battery pack. Then contact the dealer.
- ✓ If any foreign material (metal scraps, water, or other fluid) enters the printer, immediately turn off the printer and remove the USB cable and/or battery pack. Then, contact your dealer for advice. Continued use of the printer could result in a fire.
- ✓Never attempt to repair the printer yourself. Also do not disassemble or modify the product. Doing so could lead to injury, fire, or electric shock.
- ✓Do not touch the tear bar.
  - ←There is a tear bar inside the paper outlet slot. Neither put your hand in the paper outlet slot while printing is in progress, or put your hand into the outlet even when printing is not in progress.
  - ←The printer cover can be opened when replacing the paper. However, since the tear bar is on the inside of the printer cover, be careful not to place your face or hands too close to the tear bar.
- ✓During and immediately after printing, the area around the thermal head is very hot.Do not touch it, as you could be burned.
- ✓If any battery fluid gets on your skin or clothing, immediately wash the affected area with fresh water. Otherwise, skin damage may result.
- ✓The battery pack may be hot immediately after the product has been used.

■ Using the Printer

- ✓Some semiconductors can be damaged by static electricity.Be sure to turn off the printer when inserting or removing the battery pack.
- ✓Do not drop the printer or hit it against a hard object.
- ✓Do not open the printer cover while the printer is printing.
- ✓Before you open the printer cover, make sure that printing data is not being sent to the printer.
- ✓Do not unplug or plug in a USB cable while the printer is printing or during communication.
- ✓Do not touch a USB connector while the printer is printing.
- ✓Turn off the printer when you are not using it.
- ✓When the printer is used in a low temperature environment, the battery's performance will be diminished, and the amount of time that you can use the printer for may be reduced.
- ✓Do not pull out paper while the printer cover is closed.
- ✓The heating element and the driver IC of the thermal head are easily damaged. Do not touch them with metal objects, sandpaper, etc.
- ✓Printing quality may suffer if the thermal head heating element becomes soiled by being touched with your hands. Do not touch the thermal head heating element.
- ✓There is a risk of damage to the driver IC of the thermal head from static electricity.Never directly touch the IC.
- ✓Do not operate the printer if there is moisture on the front surface of the head from condensation, etc.

■ Thermal Paper Handling

- ✓Only use thermal paper with the designated specifications.The printing quality and working life of the thermal head cannot be guaranteed if any paper other than that recommended is used. In particular, if ion concentration of [Na+, K+, Cl-] is high, it may drastically reduce the working life of the thermal head. Please exercise caution.
- ✓Store the thermal paper in a cool, dry, dark location.
- ✓Do not rub the thermal paper with a hard object.
- ✓Do not leave the thermal paper in contact with plastic film, an eraser, or adhesive tape for a long period of time.
- ✓Do not stack the thermal paper on fresh diazo copies or wet-type copies.
- ✓Do not use chemical glue on the thermal paper.
- ✓Do not use thermal paper that has been stored for a long period.

■ Operating Environment for the Printer

Before actually unpacking the printer, remember the following points when doing this.

- ✓Do not use the printer in an environment in which it will be subject to strong shaking while it is printing.
- ✓Be careful to ensure that the printer is not exposed to direct sunlight.

The appropriate environment for using the printer is described below.

Temperature: -10°C to 52°C

Humidity: 10% RH to 85% RH (no condensation)

- ✓Do not place the printer near a copying machine or other device that produces a strong electromagnetic field.
- ✓Keep the printer sufficiently removed from heaters and other sources of heat.
- ✓Use the printer in a clean, low-humidity environment that is free from dust.
- ✓Avoid using the printer in high-humidity rooms.

■ Printer Maintenance

Please perform the following maintenance every 6 months.

- ✓Thermal head

  Dip a cotton swab in an alcohol solvent (ethanol, methanol, or isopropyl alcohol), and clean the heating area of the head.
- ✓Platen

  While turning the platen, use a soft dry cloth to lightly rub the entire surface of the platen and remove any foreign objects.
- ✓Paper storage unit and the surrounding area

  Remove any dirt, dust, pieces of paper, etc., from the paper storage unit.

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1. Product Overview

This printer is perfect for logistics, mobile banking systems, retail, POS (point of sale) terminals and other forms of mobile computing.

The characteristics of this printer are listed below:

- Compact and light
- Very silent printing thru direct thermal printing method
- Print speed 60mm/s
- Support Bluetooth 4.0 Dual Mode
- Support text and graphic printing
- Drop-in design that makes it easy to load paper
- A printer cover that can be opened with the touch of a button
- Printer cover open sensor, Paper-out sensor, Label gap detection

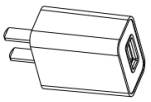
1.1 Printer & Accessories

The printer is packaged with the following accessories.

If any of these accessories is broken or missing, please contact the dealer that you bought the product.

Printer

USB Cable



AC Adapter

Battery

Quick Start Guide

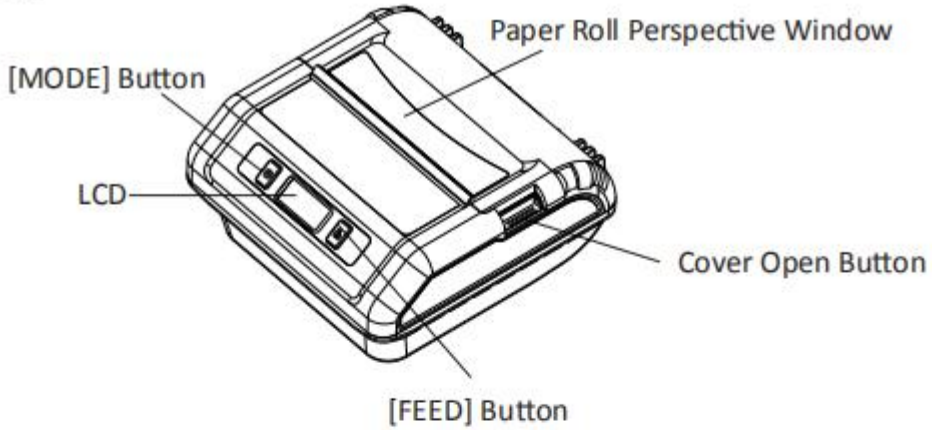
Note:

1) The AC adapter vary by local or region.

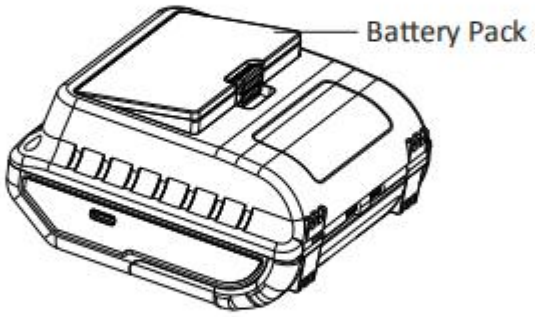
2) The packing items are actually based on the order.

1.2 Appearance and Components

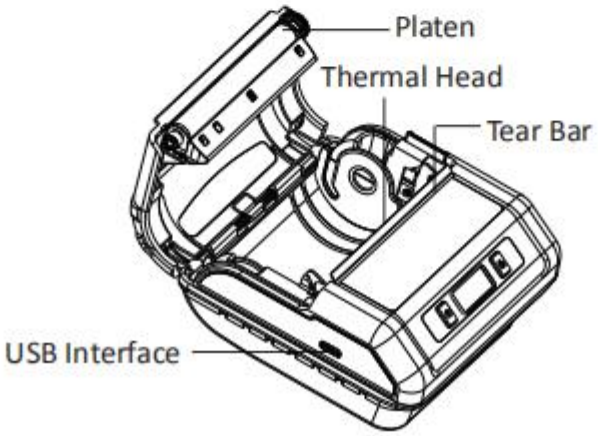
- **Front**



- **Rear**



- **Inside**

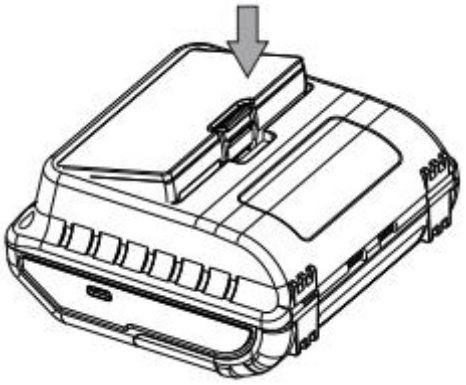


2. Setup

2.1 Battery Pack

2.1.1 Inserting into the Printer

1. Make sure that the printer has been turned off before you insert or remove the battery pack.
2. Insert the battery pack into the back of the printer as in the figure shown below, following the direction of the arrow. Press down on the battery pack until the hooks click into place.



3. To remove the battery back, pull back the hook, and use the opposite procedure from the one you used to insert the battery pack.

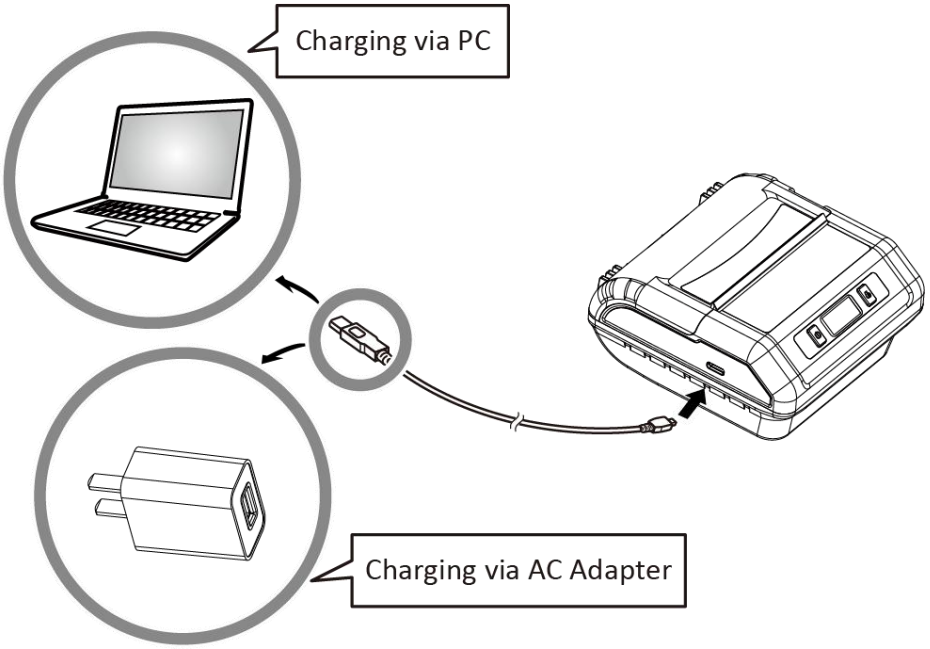
NOTE:

This printer can only use the company's original equipment or approved special battery, otherwise, it may cause damage to the product, battery leakage, fire or explosion.

2.1.2 Charging the Battery

Insert the battery pack into the printer to charge it.

Plug in socket with USB charging.



When battery pack runs out of power, the battery icon will flash. It powers off automatically when continues printing. If you want to go on, please charge it.

Notes about the Battery Pack

◆ **General Battery Characteristics**

- The battery is a consumable and its performance over time gradually decreases.
- While not in use, the battery will slowly discharge itself.
  Prepare a battery pack that has been charged relatively recently (1 to 2 days earlier).
- To ensure that the battery lasts for a long time, we recommend that you turn off the printer whenever possible.
- When used at low temperatures, battery performance will temporarily decline. Be sure to have a fully-charged spare battery standing by if the printer will operate in a cold environment.

◆ **Charging the Battery Pack**

- The battery pack can be charged at ambient temperatures between 0 and 40°C.
- The time required to charge the battery pack varies depending on the voltage and the ambient temperature.
  Normally, it takes 3 to 4 hours to charge the battery pack.

- It will take longer to charge the battery pack if you print while charging the battery pack.

- Do not remove the battery pack while it is being charged.
- Fully charge the battery prior to using the printer. Otherwise, the performance of the battery may be affected.
- There is no need to completely discharge or use up a rechargeable Lithium-ion battery before recharge it.
- It is normal for the battery pack to be hot after it has finished charging or been used.
- Do not recharge a battery pack that has just been fully charged.

◆ **Notes about Using the Battery Pack**

- Only use a designated battery pack.
- Only use the designated battery charging method.
  You cannot use a USB cable other than the designated USB cable.
- Do not throw the battery into a fire, place it near a flame or heating device, or leave it in a hot environment (under direct sunlight, in a car, etc.).
- Do not use a battery pack that has been dropped or subjected to a shock in some other way.
- Do not disassemble or modify the battery pack.
- Do not short the terminals of the battery pack or get it wet.
- Do not place the battery pack in a bag with a small metal object (such as a key).
- If any battery fluid gets on your skin or clothing, immediately wash the affected area with fresh water. Otherwise, skin damage may result.

◆ **Notes about Storing the Battery Pack**

- If you do not intend to use the battery pack for a long time, be sure to remove it from the printer.
- Keep the battery out of the reach of children. In addition, be careful that children do not remove the battery.
- Store the battery pack in a cool place.
  * We recommend that you store the battery pack in a dry area with an ambient temperature of 15 to 25 ℃.
  * Avoid storing the battery in locations with high or extremely low temperatures.

◆ **Battery Disposal and Recycling**

A battery pack is used to power this device. Since the disposal process of batteries varies from country to country, refer to the appropriate measures mandating the disposal method of the country in which this device is used.

If battery pack is not in use for a long time, please remove it after fully charged. And it should be recharged every 3 months.

When power is low,battery should be charged in time. If the printer automatically power down because of low power, be sure to charge the battery in 15 days. Otherwise, it will cause permanent damage to the battery.

2.2 Bluetooth

1. Press and hold MODE button for approx. 2 seconds, and printer is turned on.

   Then, it is ready to pair with another Bluetooth device.

2. If necessary, enter the following information into the terminal that you are using.

   PIN: 1234 (default)

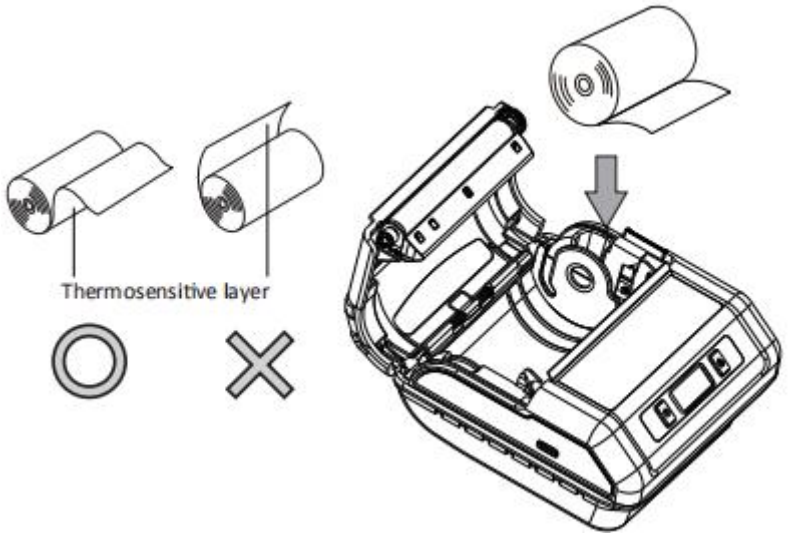
   Device name: “iMOVE 3-XXXX”(default)

   (XXXX is the last four digits of Bluetooth address)

2.3 Loading Paper

1) Press the cover open button to open the paper cover.

2) Load the roll paper in the orientation shown in the figure below.



3) Pull the end of the roll straight toward you. Then press down on both sides of the printer cover to close it firmly.When you close the printer cover, make sure that it is closed on both sides.

4) Use the tear bar to cut the extra paper.

⚠ *WARNING*

1) Do not touch the tear bar.

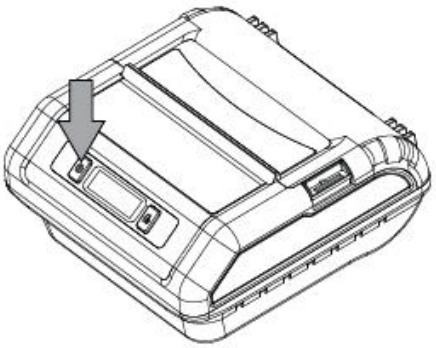
- There is a tear bar inside the paper outlet slot. You could neither put your hand in the paper outlet slot while printing is in progress nor put your hand into the outlet even when printing is not in progress.
- The paper cover can be opened when replacing the paper, be careful not to place your face or hands too close to the tear bar.

2) During and immediately after printing, the area around the thermal head is very hot. Do not touch it, as you could be burned.

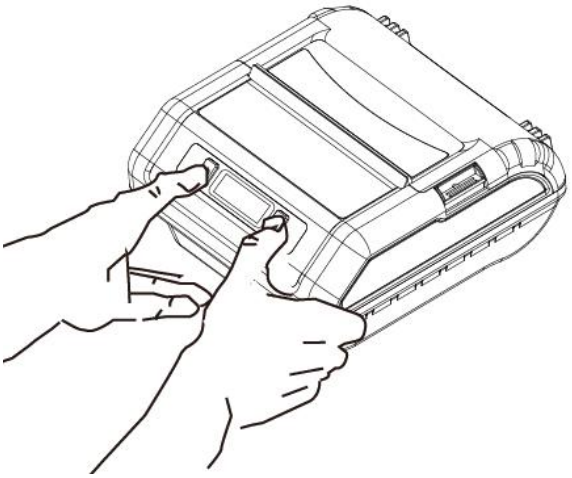
2.4 Menu Settings

Change the Menu settings by following operations.

1. Press and hold the MODE button for approx. 2 seconds, and printer is turned on.



Press and hold both the MODE & FEED. Release the buttons after printer displays “Language: English”, you can configure the settings.



2.To switch the Menu and option parameter, or return to the previous menu, press MODE button.

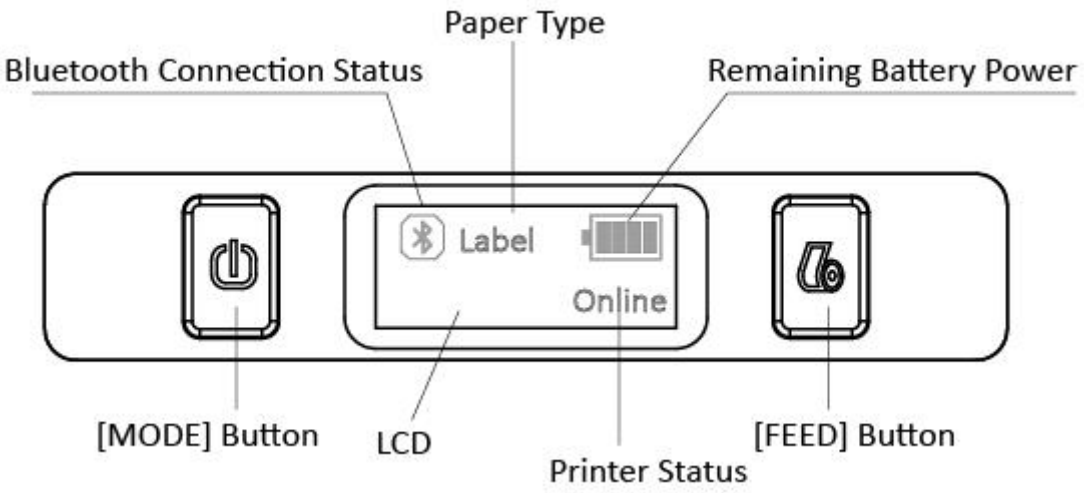
3.To switch or confirm the new setting, press FEED button.

⚠CAUTION

Before changing the menu setting, make sure that the communication with a host device is disconnected. When the printer is under the Bluetooth communication with a host device, it cannot enter the Menu Settings mode.

3. Printer Features

3.1 Control Panel



3.1.1 Button

1) MODE Button:

①Pressing and holding the MODE button for 2 seconds or more will turn the power on or off.

②Pressing and holding MODE & FEED buttons for 5 seconds will put the printer into Menu Setting mode. The MODE button can now be used to change Printer MODE status visible on the LCD screen for fast configuration.

2) FEED Button:

①When the printer is on, paper can be fed manually by pressing and holding the FEED button for more than one second.

②In Menu Setting mode,the FEED button can be used to switch and confirm the new setting.

3.1.2 LCD Indication

LCD will display most of the printer status.

Content

Mode/Status: Indicates the currently specified printer mode or error status.

Remaining battery power :

There is sufficient remaining battery power.

The remaining battery power is low. Please charge the battery pack.

The remaining battery power is extremely low.

Flashing Stop using the printer immediately, and charge the battery pack.

Note: If you continue printing at the low remaining battery power status, the printer cannot feed paper properly and may print with condensed (narrow) line spacing.

Bluetooth connection status

The mark on the left indicates that there is no Bluetooth connection.

The mark on the left indicates that there is a Bluetooth connection.

3.1.3 Buzzer Description

Buzzer	Status
No ring	Low battery
Once	Begin charging/Press button/Cover close
Twice	Paper out/Cover open
Three	USB disconnected

3.2 Self Test

You can use self test to check the printer's settings.

Before you start the self test, make sure that roll paper has been properly loaded into the printer.

Self Test Procedure:

1)Turn on the power while holding down FEED button.

2)The printer will print the current printer status, including the firmware version, communication mode.

3)The self test will finish automatically. The printer will be ready to receive data after the self test finishes.

3.3 Instruction for Standby(Sleep) Mode

The printer in the Standby(Sleep) Mode will recover to the Print Ready Mode when receiving print data or button operations.

Press the FEED button or the MODE button and confirm that the LCD is turned on. When the LCD is not turned on, it is possible that the printer is turned off by the Power OFF mode. In this case, turn the printer on manually.

4. General Specification

Item		Specifications
Printing	Printing method	Direct line thermal printing
	Resolution	203dpi (8dots/mm)
	Printing speed	60mm/s
	Interface	USB, Bluetooth
Power saving	Sleep mode	YES
Memory	RAM	4MB
	Flash	8MB
Font	Chinese	GBK: 18x16, 24x24
	Alphanumeric	ASCII: 9x16, 12x24
Barcode	1D	Code 39, Code 93, UCC/EAN128, Code 128, Codebar , Interleaved 2-of-5, UPC-A, UPC-E, 2 and 5 digit add-on, EAN-8, EAN-13, 2 and 5 digit add-on. Industrial 2 of 5
	2D	QR code,PDF417
Detection	Sensors	Printer cover open sensor, Out-of-paper sensor, Label gap detection
Power	Output	5V ⎓ 1A
	Battery	2000mAh/7.4V rechargeable Li-ion battery
Paper	Paper type	Thermal paper or Label paper
	Paper width	44mm or 60mm or 80mm
	Paper thickness	0.053mm≤X ≤0.15mm
	Roll paper diameter	Ø40mm
	Recommended paper	Thermal paper : P220AG, PD450, FD200, Alpha 400-2.1 Label paper : RICHO 150PSMW, UPM DT80W
Physical characteristics	Operation condition	0°C to 50°C, 25% to 85%RH
	Storage condition	-20°C to 70°C, 5% to 95%RH
	Dimension	109(W)×108.01(H)×55.32(D)mm
	Weight	382.5g (including battery pack)
Reliability	TPH	50km(not more than 12.5% printing density)/100 million pulses
Software	Emulation	CPCL
	Driver	Windows(7/8/10/Vista/XP)
	SDK	WinCE, Win Mobile, Android, IOS

⚠WARNING:

Please use the recommended thermal paper or same quality paper, otherwise it will influence the printing quality and decrease the thermal print head life.

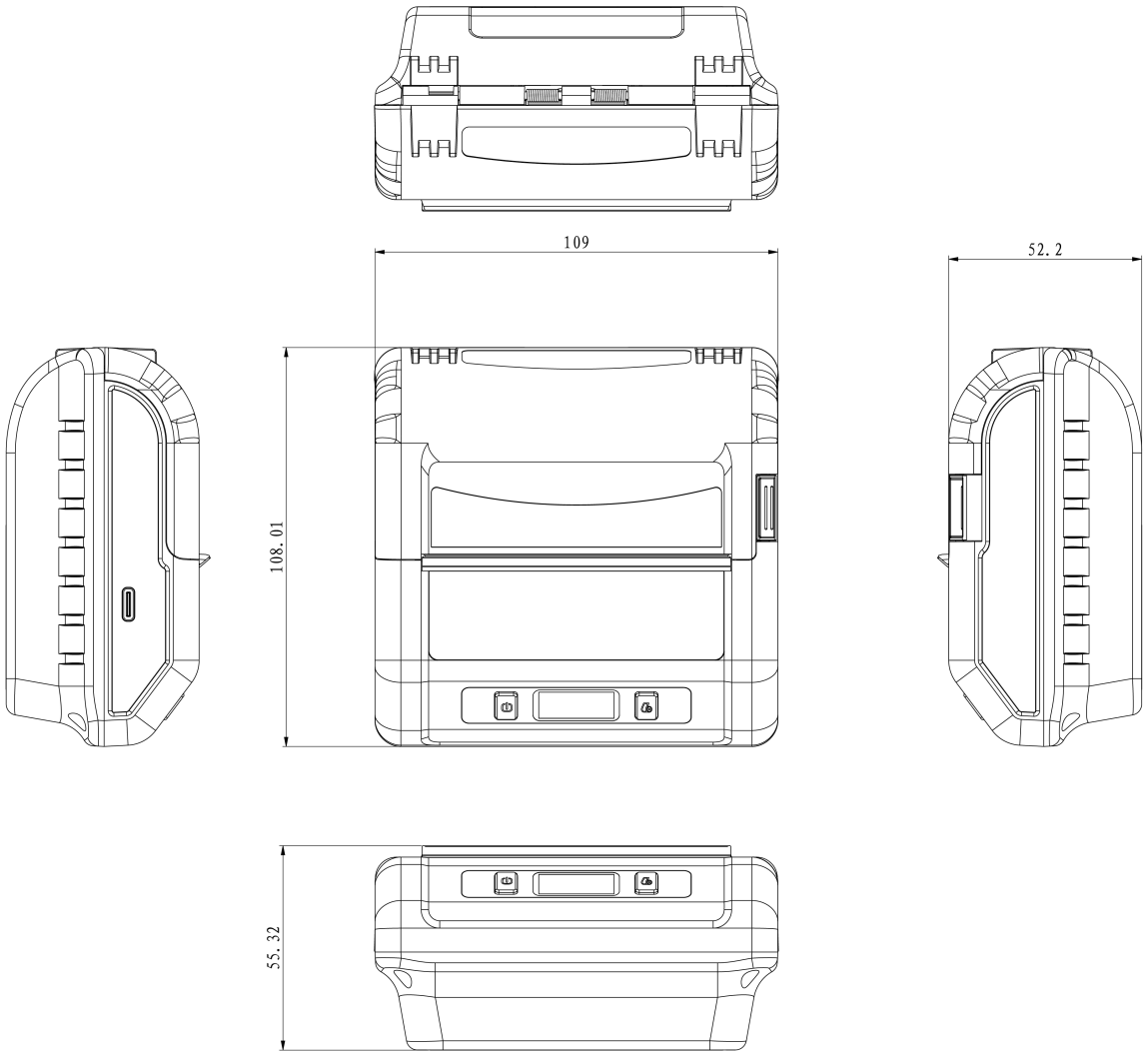
Please Use at a room temperature if you want to set the print density to “Special”.

Some types of the paper are not suitable for use in low-temperature environment.

■ Dimensions

・External Dimension: 109(W)×108.01(H)×55.32(D)mm

・Weight : 382.5g (including battery pack)



5. Troubleshooting Procedure

When a trouble occurs, confirm its phenomenon, locate a defective part in accordance with "5.1 Troubleshooting Guide", and troubleshoot as described below.

Phenomenon:

Find a trouble phenomenon in this column. If there are multiple phenomena, take all the corresponding items into consideration. This allows you to specify a hidden defective part.

Cause:

Lists as many possible causes as possible. Guess a trouble cause out of them and take its check method to specify the trouble cause.

Check Method:

Describes a check method to specify a trouble cause.

Remedy:

Troubleshoot by taking a remedy described in this column.

By troubleshooting in accordance with the above-mentioned procedure, you can troubleshoot efficiently with fewer misjudgments.

5.1 Troubleshooting Guide

5.1.1 Power Supply Failure

Phenomenon	Cause	Check Method	Remedy
No Power	The battery is not connected		Connect the specified battery
	The battery is discharged	Battery level ⩽7.4V	Charge the battery

5.1.2 Printing Failure

Phenomenon	Cause	Check Method	Remedy
No printing	The roll paper is loaded upside down.		Install the roll paper properly.
	Faulty Main Logic Board Unit.		Replace the Main Logic Board Unit.
	Faulty connection of the thermal head connector.	Check connection of the thermal head connector.	Connect the thermal head cable to connector properly.
	Faulty thermal head.		Replace the Mechanism Unit.
Partly not printed	Faulty connection of the thermal head connector.	Check connection of the thermal head connector.	Connect the thermal head cable to connector properly.
	Printer cover one side close.		Close printer cover correctly.
	Faulty thermal head.		Replace the Mechanism Unit.
Faint printout or uneven printout	Level of battery voltage is low.	Check the battery lamp on the LCD.	Charge the battery.
	Printer cover one side close.		Close printer cover correctly.
	Faulty thermal head.		Replace the Mechanism Unit.
	Foreign substance is adhered to the thermal head.	Check whether any foreign substance are adhered to the thermal head.	Dip a cotton swab or soft cloth in ethyl alcohol and wipe the foreign substance with them.
	Non-recommended paper is used.	Check whether the paper being used meets the specification.	Replace it with the specified paper.
	Faulty mounting of the platen.	Check mounting condition of the platen.	Mount the platen properly.

5.1.3 Faulty Sensor

Phenomenon	Cause	Check Method	Remedy
Does not detect presence of paper.	Faulty paper sensor.	Check whether the ERROR lamp flickers when paper is out.	Replace the Mechanism Unit.
	Foreign substance is attached the paper sensor.	Check whether any foreign substance are adhered to the paper sensor.	Remove the foreign substance.
	Faulty connection of the paper sensor connector.	Check connection of the paper sensor connector.	Connect the paper sensor cable to connector correctly.

5.1.4 Paper Feed Failure

Phenomenon	Cause	Check Method	Remedy
Paper is not feed or feed irregularly	The printer cover is not closed properly.		Close the printer cover properly.
	Faulty connection of the motor connector.	Check connection of the motor connector.	Connect the motor cable to connector correctly.
	Defective motor.		Replace the Mechanism Unit.
	Battery voltage drop.	Check the battery display of the LCD.	Charge the battery.
	Faulty Main Logic Board Unit.		Replace the Main Logic Board Unit.
	Faulty mounting of the platen.	Check mounting condition of the platen.	Mount the platen properly.
	Paper feed failure.	Check whether or not the paper is jamming or torn and caught in the paper path.	Eliminate unnecessary paper in the paper path and set paper properly.
	Foreign substance in the gear.		Eliminate the foreign substance.
	Broken gear.		If the gear is broken, replace the Mechanism Unit.

5.1.5 Error Message(Printer Status indication on the LCD)

Message	Description of failure message	Remark
Cover Open	Printer cover is not closed properly.	Close printer cover properly.
Out of Paper	Empty paper.	Replace the roll paper.
High Temperature	Thermal Head is overheat.	Is recovered with the automatic which comes to be cool.

6. Windows Driver Instruction

6.1 Operating System

The following operating systems are supported for usage.

- Microsoft Windows 10 (32 bit/64 bit)
- Microsoft Windows 8 (32 bit/64 bit)
- Microsoft Windows 7 SP1 (32 bit/64 bit)
- Microsoft Windows Vista SP2 (32 bit/64 bit)
- Microsoft Windows XP Professional SP3 (32 bit)
- Microsoft Windows Server 2012(64 bit)

6.2 Windows Driver Preparation

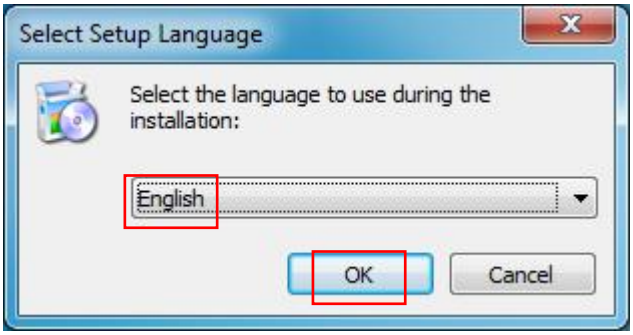
The installation file name is iDPRT_iMOVE_Series_Printer_Windows_Driver_vX.X.X.X.exe

E.g. iDPRT_iMOVE_Series_Printer_Windows_Driver_v2.7.2.0

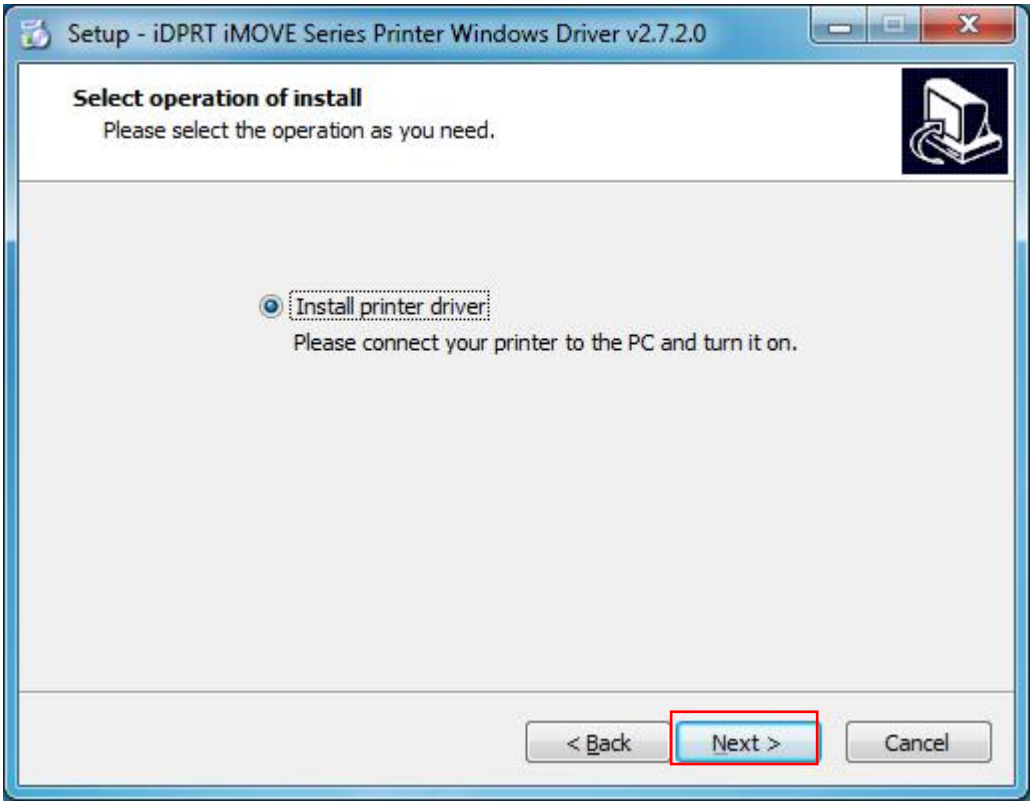
6.3 Windows Driver Installation

Warning: Under different operating systems, the screen has slight difference. Please operate it according to the tips. Take Windows 7 as example.

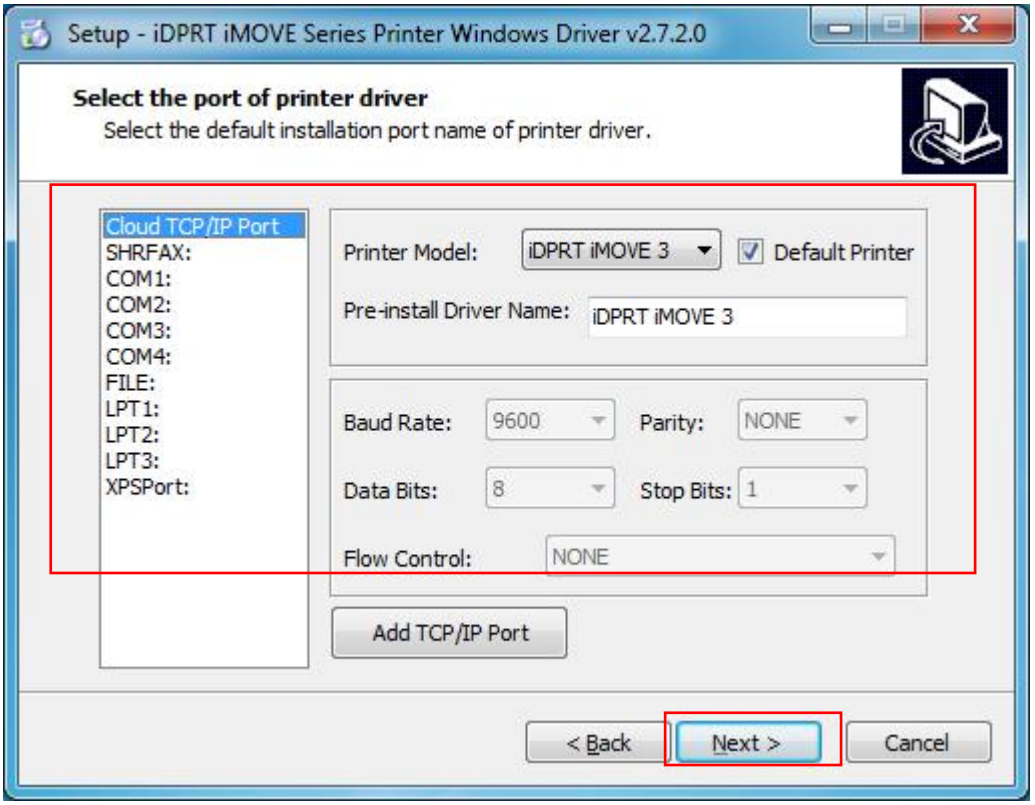
1. Double click Windows Driver .
2. Choose “English” and click “OK”.



3. Click “Next”.

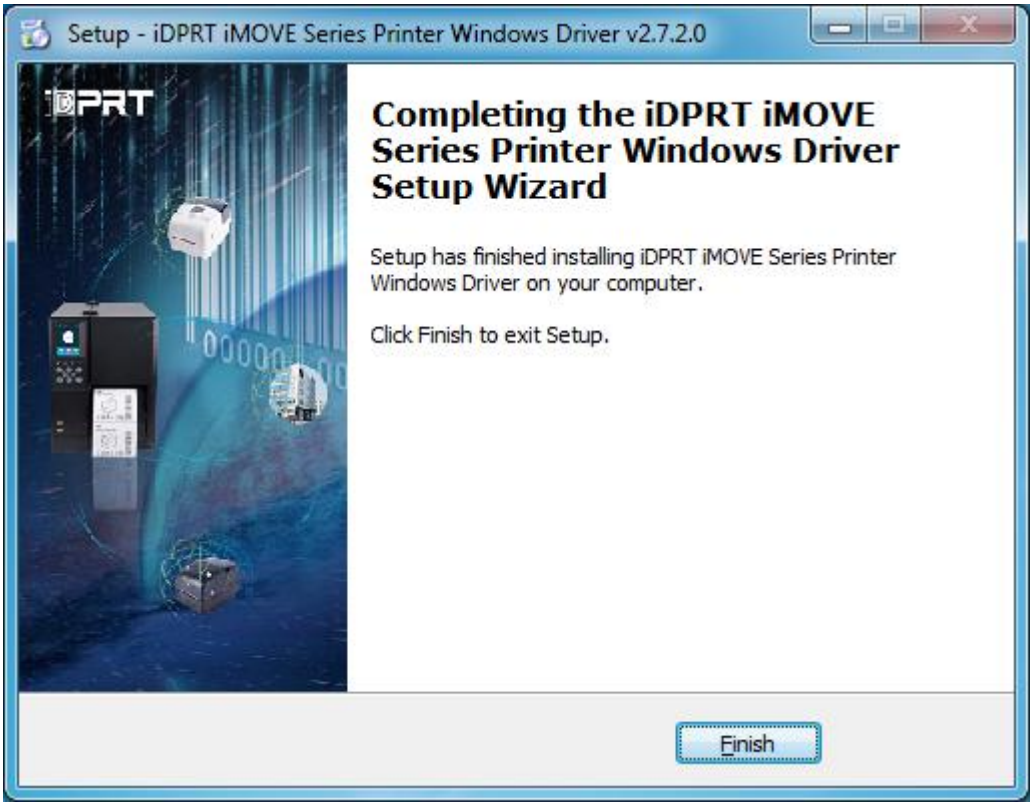


4. Choose the printer model, then choose the matched type of port (USBxxx is for USB port, COMx is for serial port, LPTx is for parallel port), and click “Next”.



NOTE: If printer is already connected with computer by USB port, it only needs to click “Install”, then it will be installed automatically. Otherwise, proceed to the next step.

5. Finish the installation.



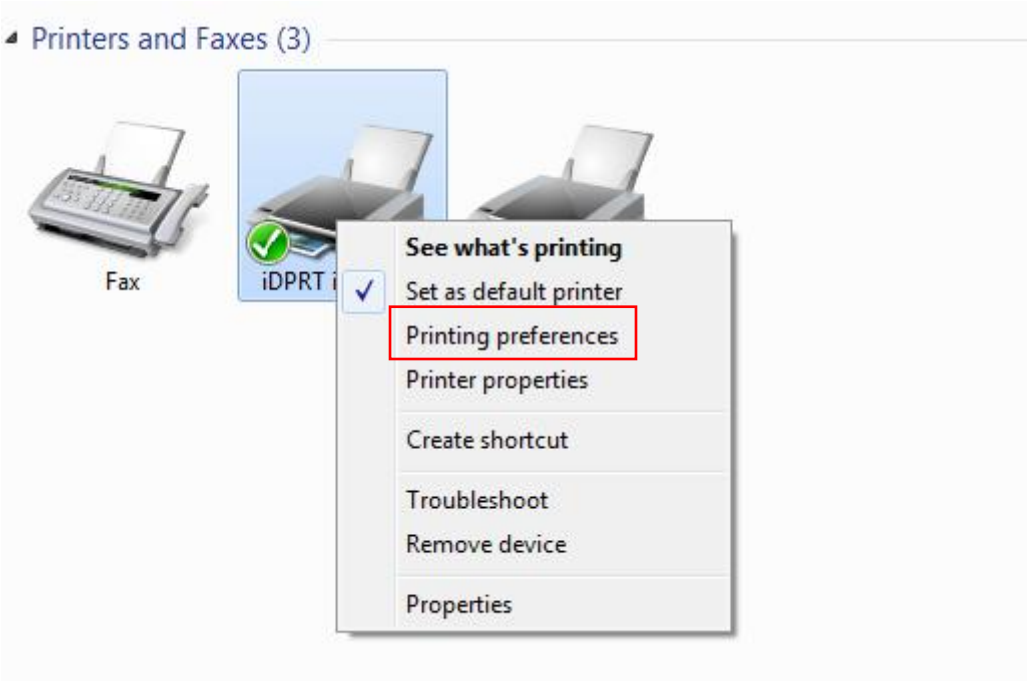
6. After installation, the icon will be found in “Start” → “Devices and Printers”.

NOTE: If you already installed the driver (No matter what kind of port), when you connect the printer with computer, it will create a USB port automatically.

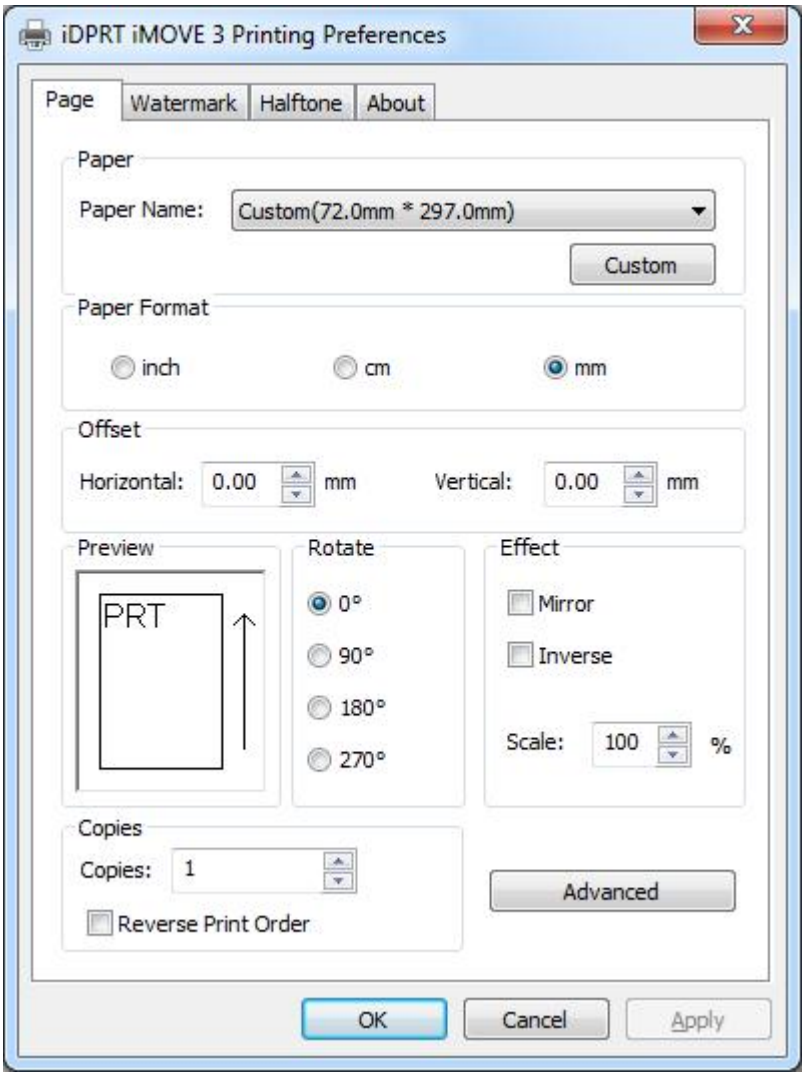
6.4 Detailed Windows Driver Setting

6.4.1 Printing Preferences

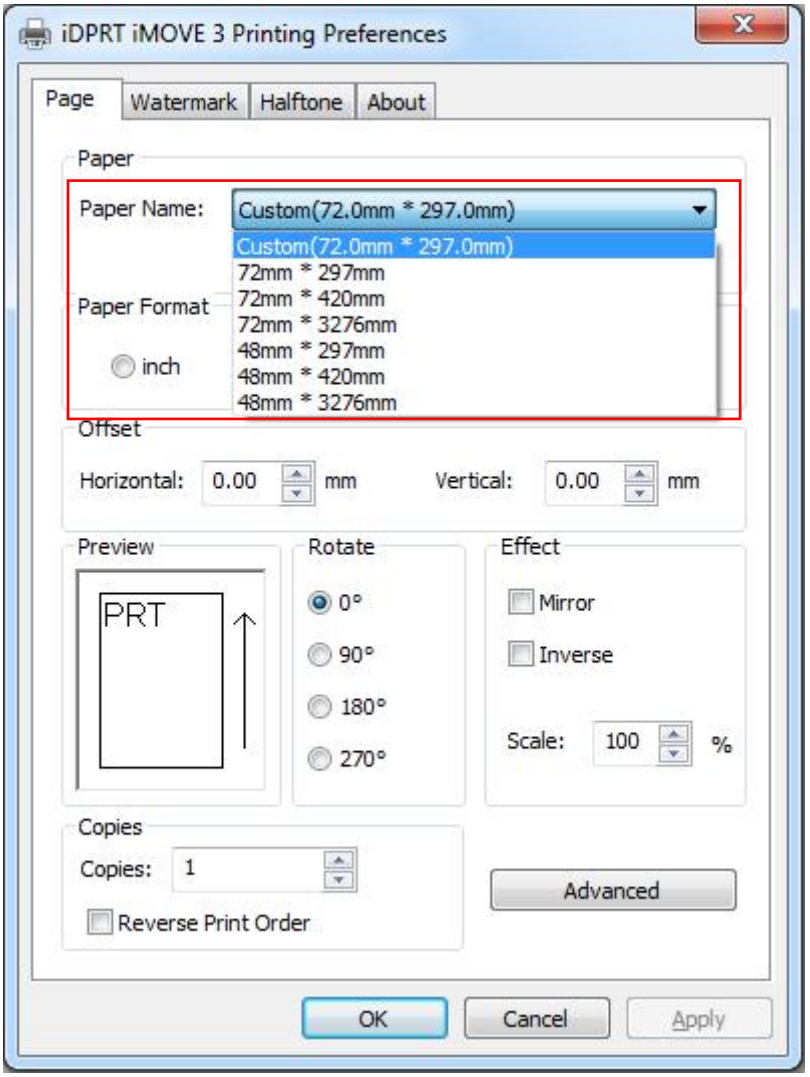
1. Click “Start” → “Devices and Printers”. Right click “iMOVE 3” and choose “Printing preferences”.



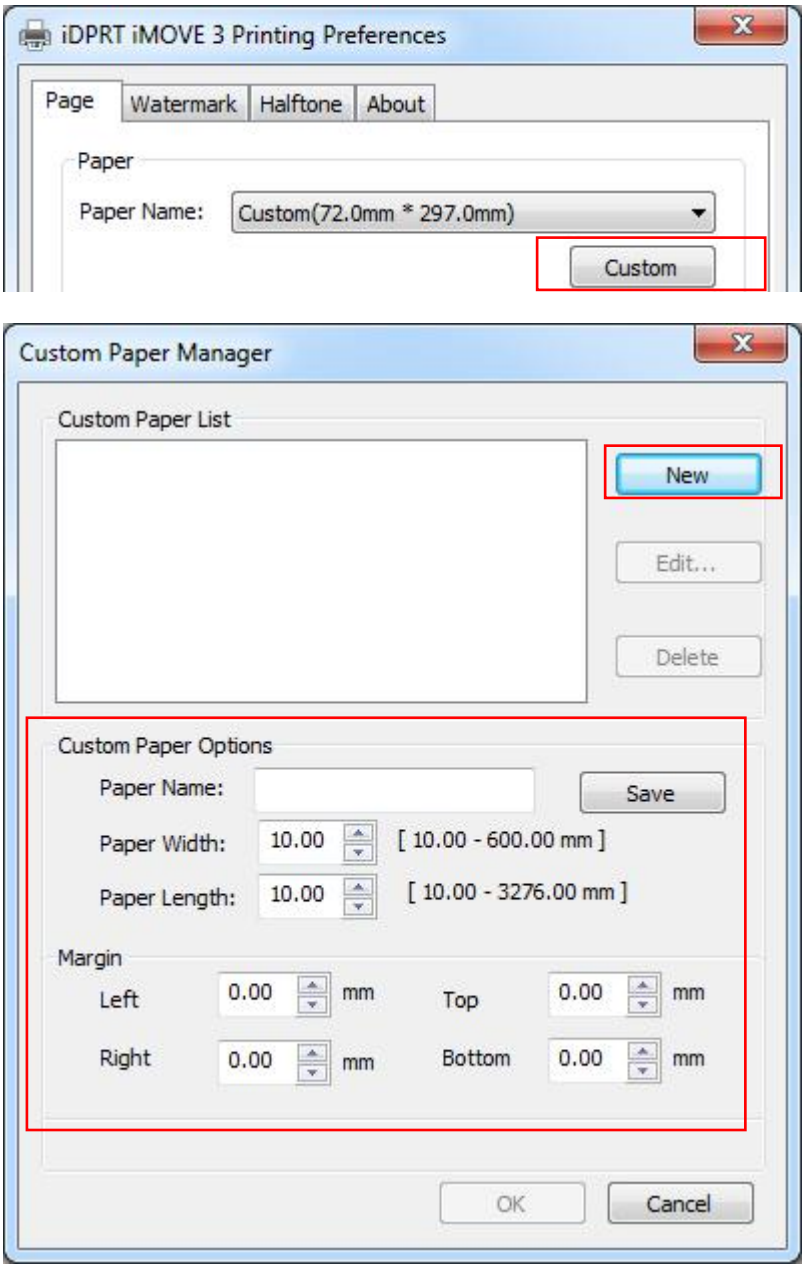
2. According to different needs, set up the paper.



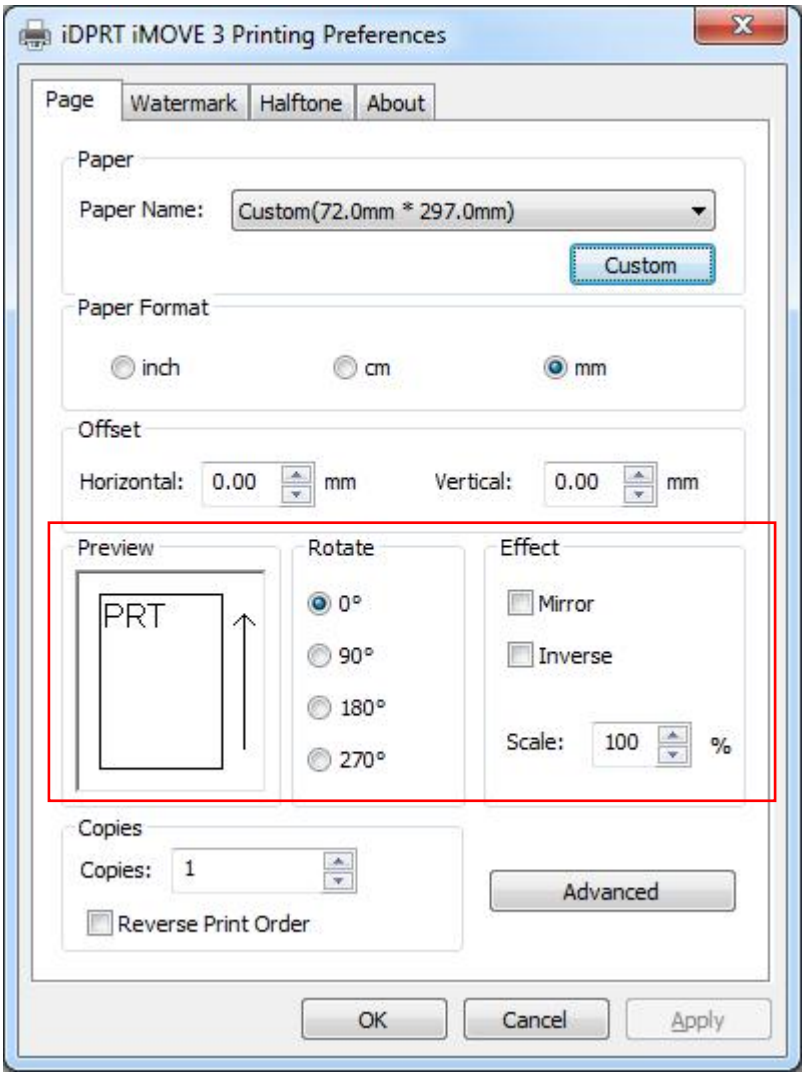
• Click “Paper Name”, and choose the paper type.



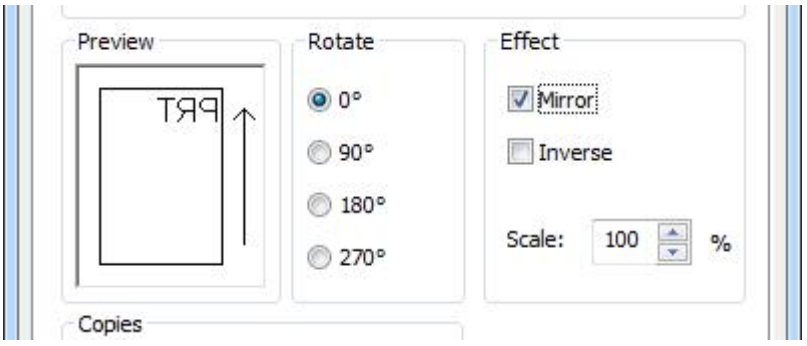
• Click “Custom” and then click “New”. Set up the custom paper.



• Choose “Rotate” or “Effect”, showed in the “Preview”.

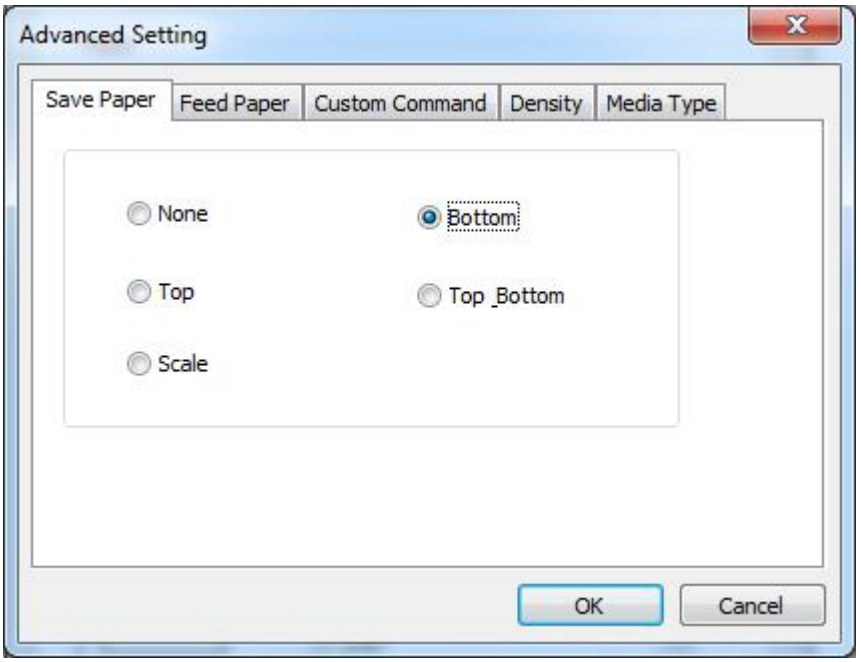


For example, choose “Mirror” effect, showed as below:

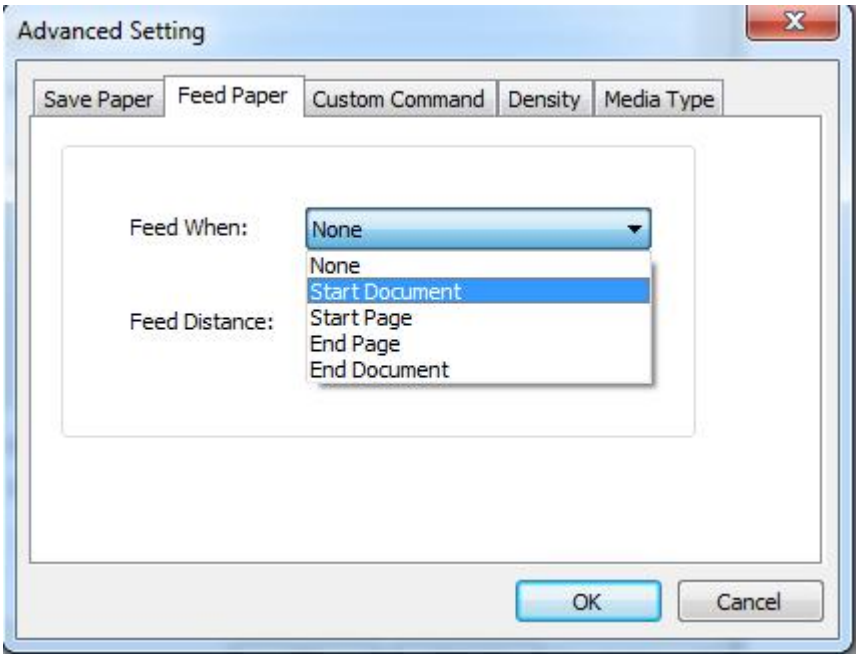


• Click “Advanced” to set up “Save Paper”, “Feed Paper”, “Custom Command”, “Density” and “Media Type”.

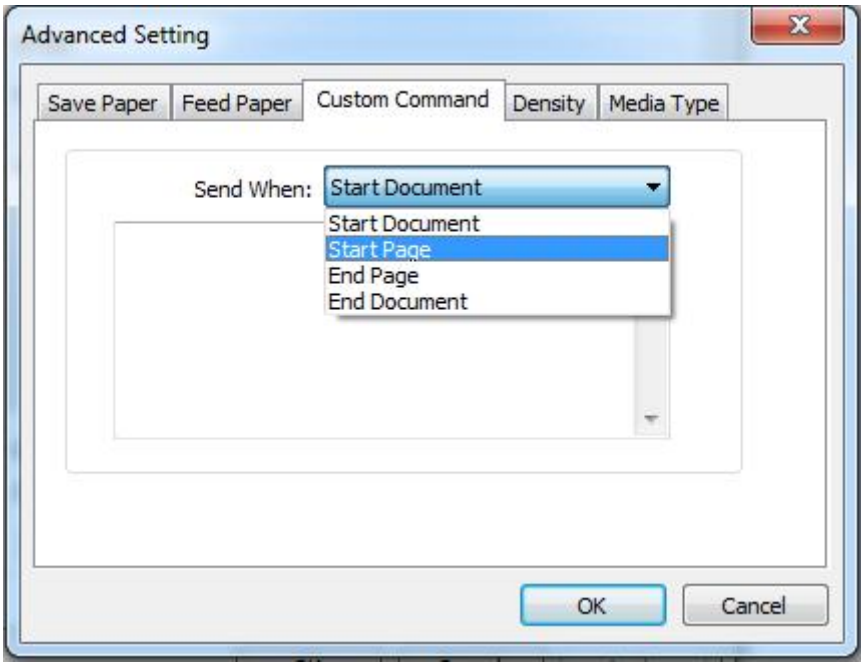
Save Paper:



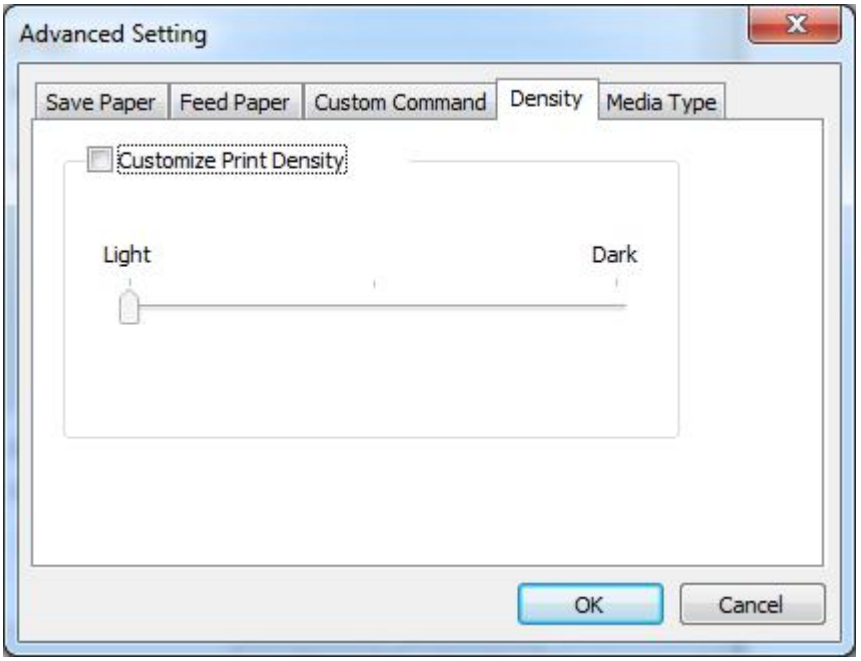
Feed Paper:



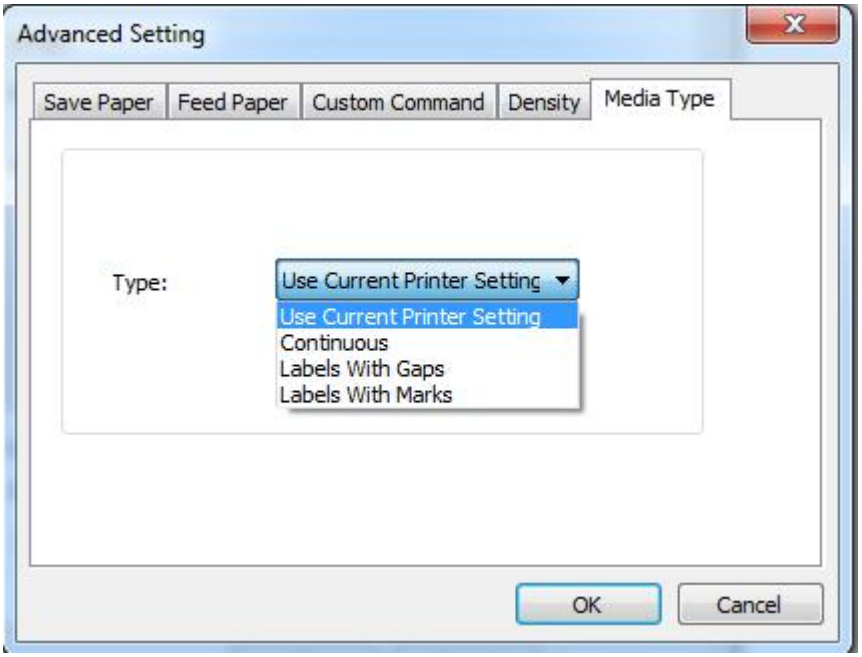
Custom Command:



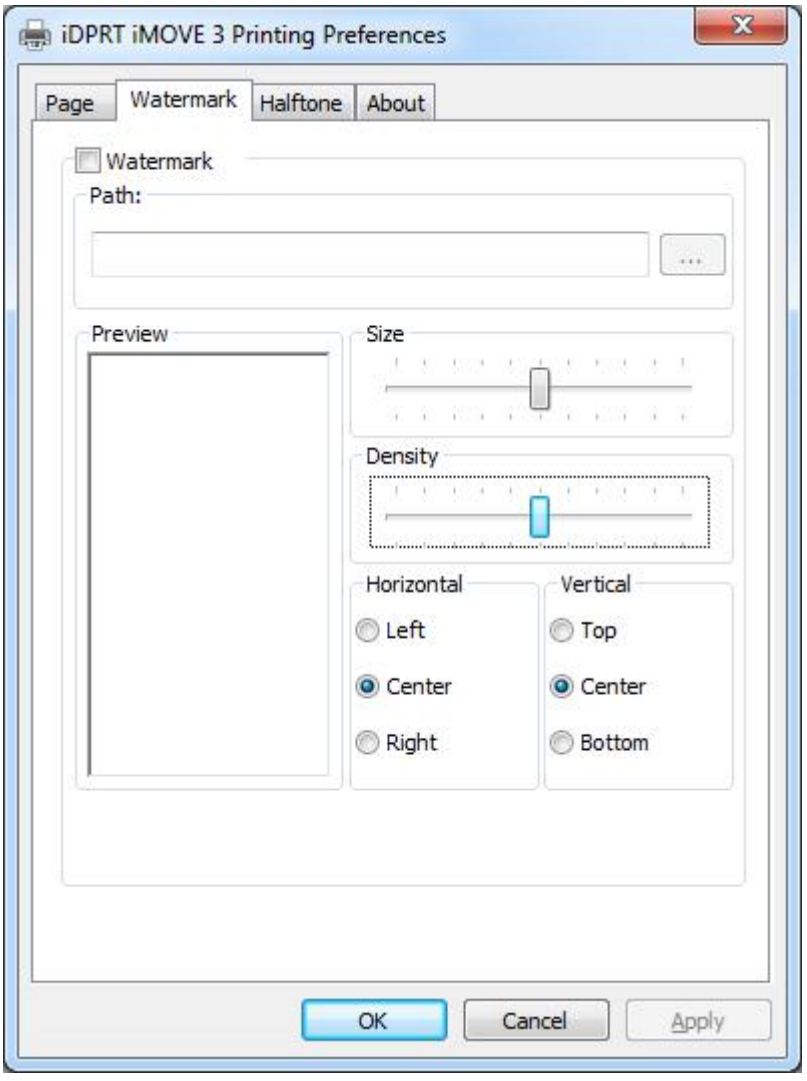
Density:



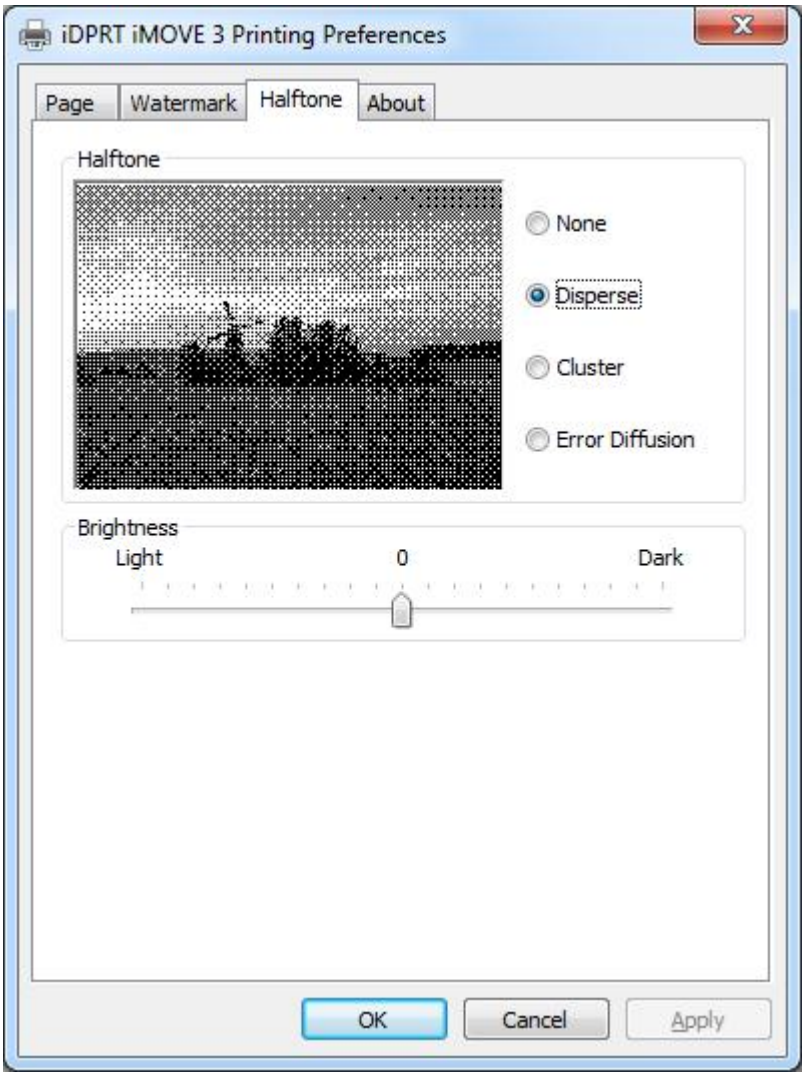
Media Type:



3. Set up the watermark.



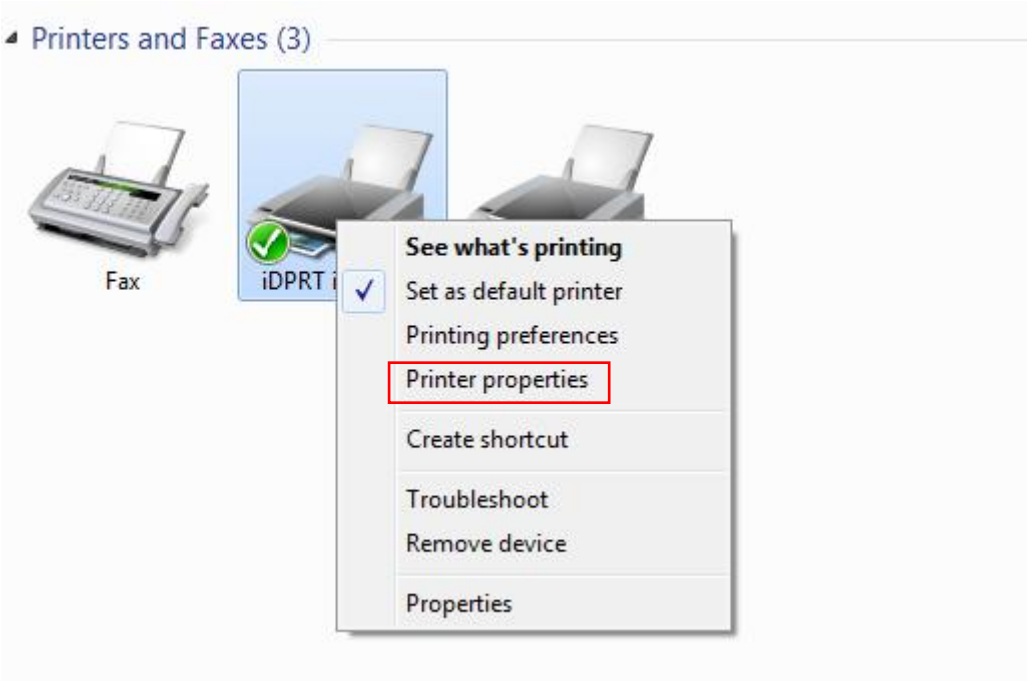
4. Set up halftone.



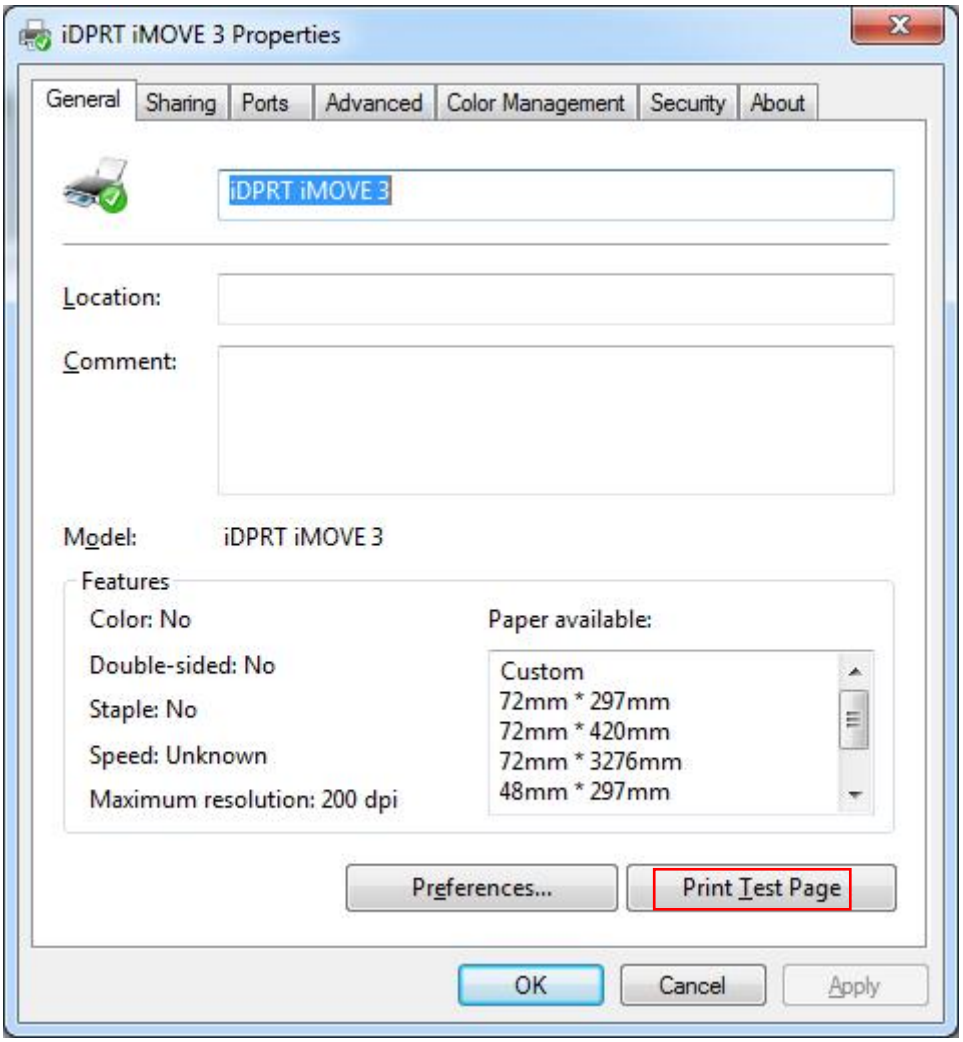
5. After finishing all the settings of printing preferences, click “OK” to save it.

6.4.2 Other Settings

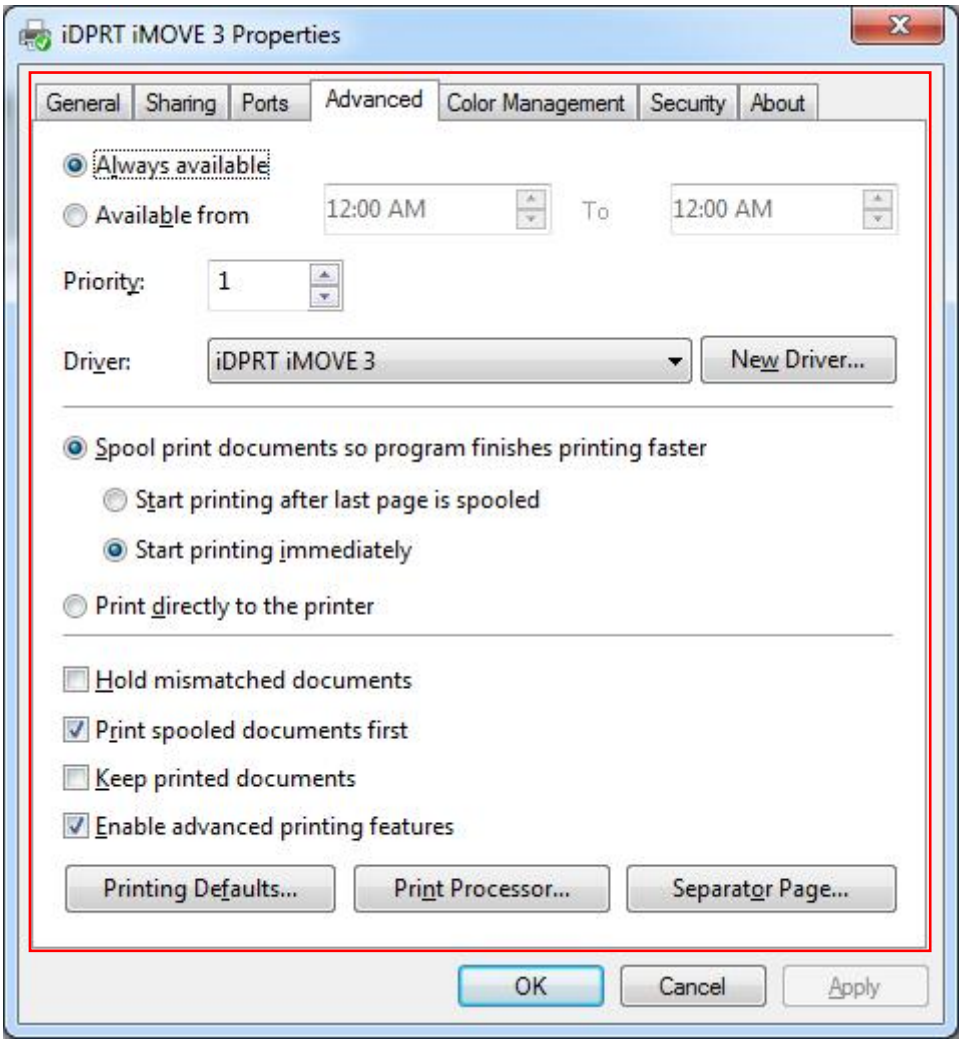
1. Click “Start” → “Devices and Printers”. Right click “iMOVE 3” and choose “Printer properties”.



2. Click “General”→“Print Test Page”, and printer will print labels with current settings.

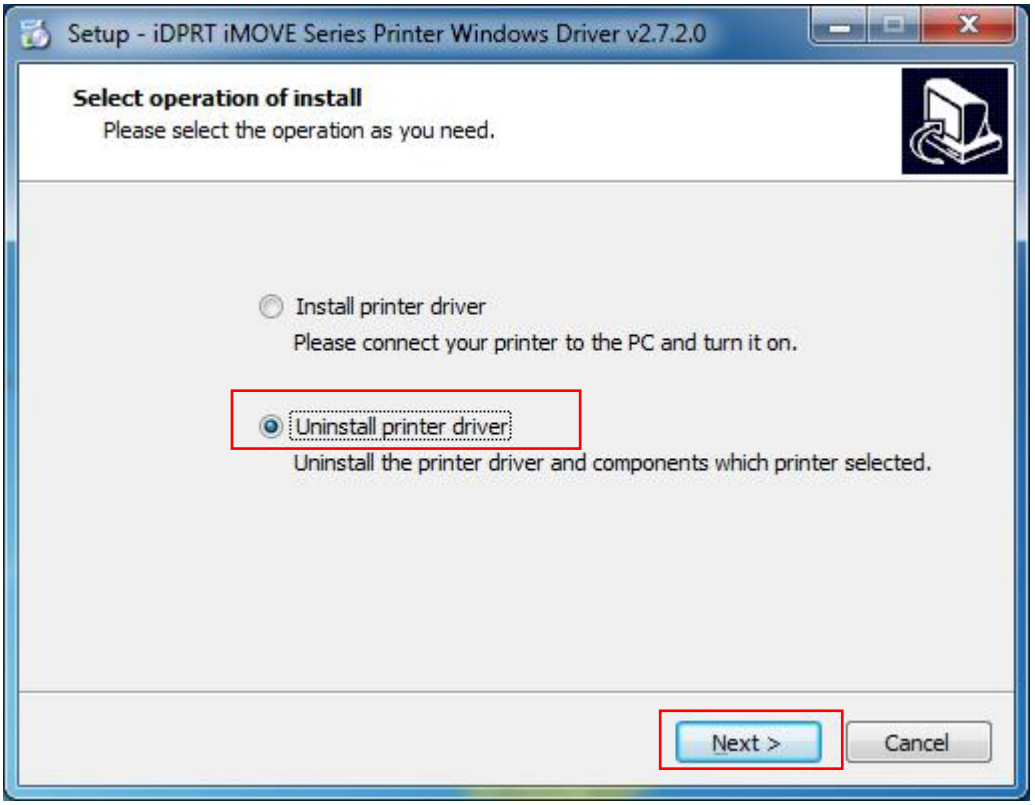


3. Click “Advanced” and set up as need.

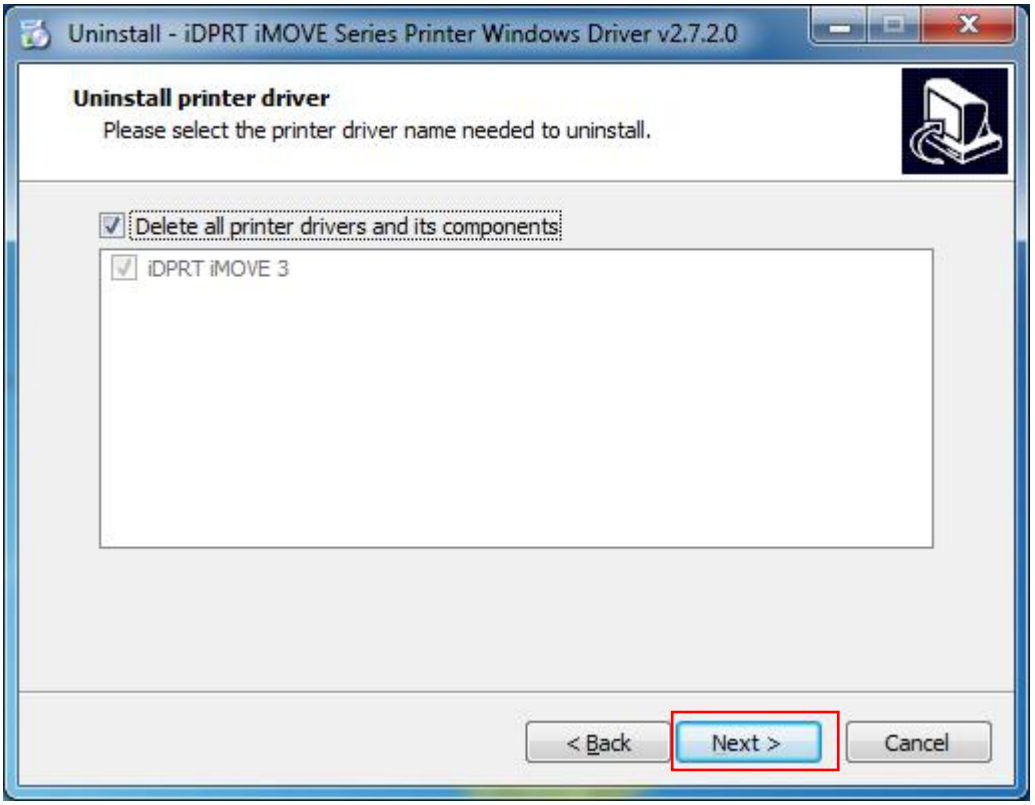


6.5 Uninstalling the Driver

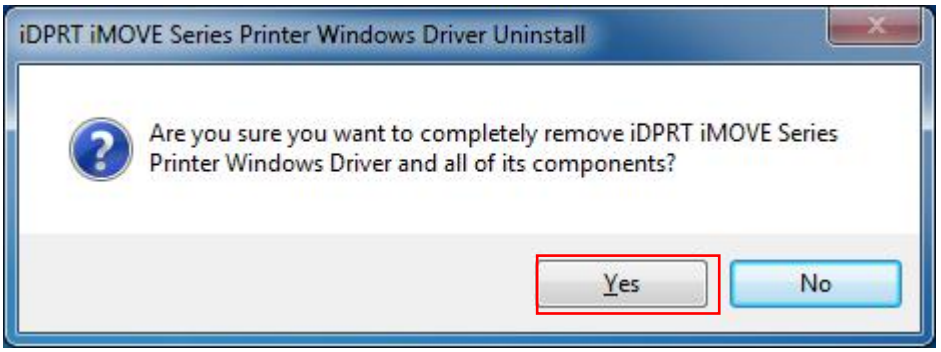
1. Double click the driver icon , choose “Uninstall printer driver” and click “Next”.



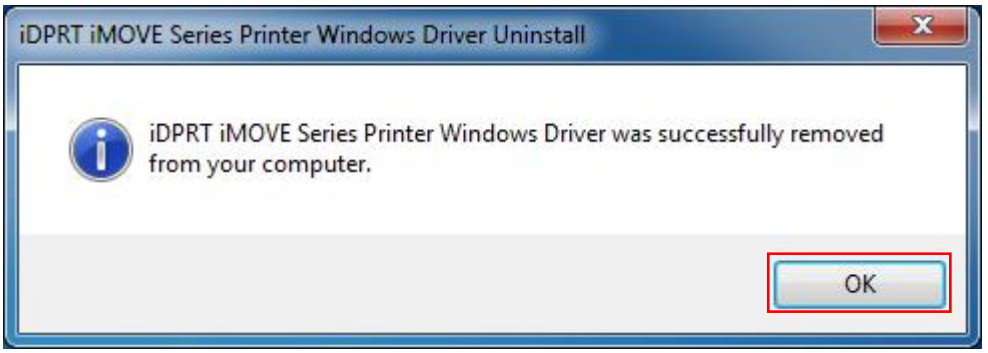
2. Click “Next”.



3. Choose “Yes”.



4. Click “OK” to finish uninstalling.



7. Utility Tool Instruction

7.1 Operating System (OS) Environment

iMOVE 3 Utility Tool is applicable to the following operating system:

- Microsoft Windows 10 (32 bit/64 bit)
- Microsoft Windows 8 (32 bit/64 bit)
- Microsoft Windows 7 SP1 (32 bit/64 bit)
- Microsoft Windows Vista SP2 (32 bit/64 bit)
- Microsoft Windows XP Professional SP3 (32 bit)
- Microsoft Windows Server 2012(64 bit)

7.2 Utility Tool Preparation

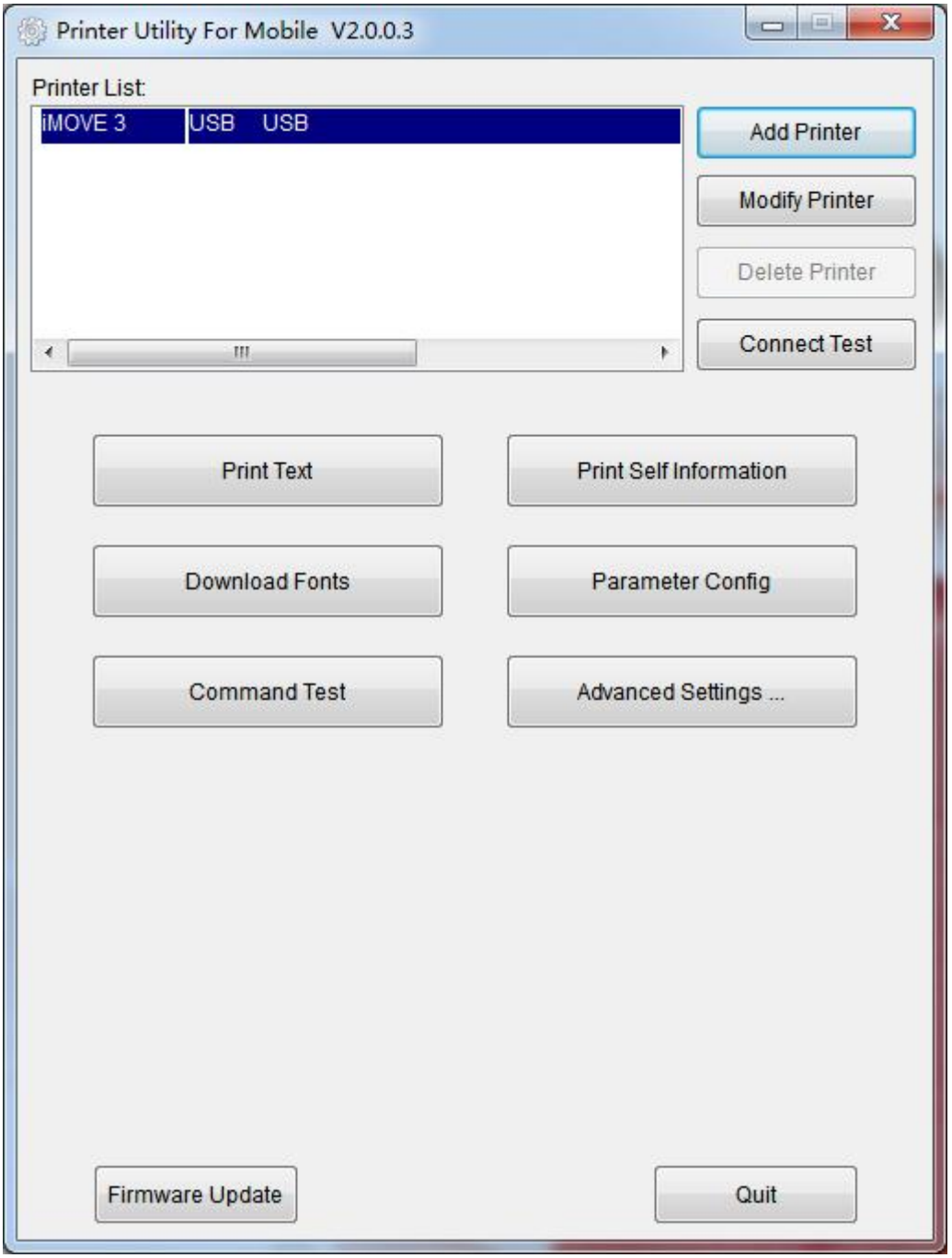
The installation file name is iDPRTUtilityForMobile VX.X.X.X

E.g. iDPRTUtilityForMobile V2.0.0.3

7.3 Using Utility Tool

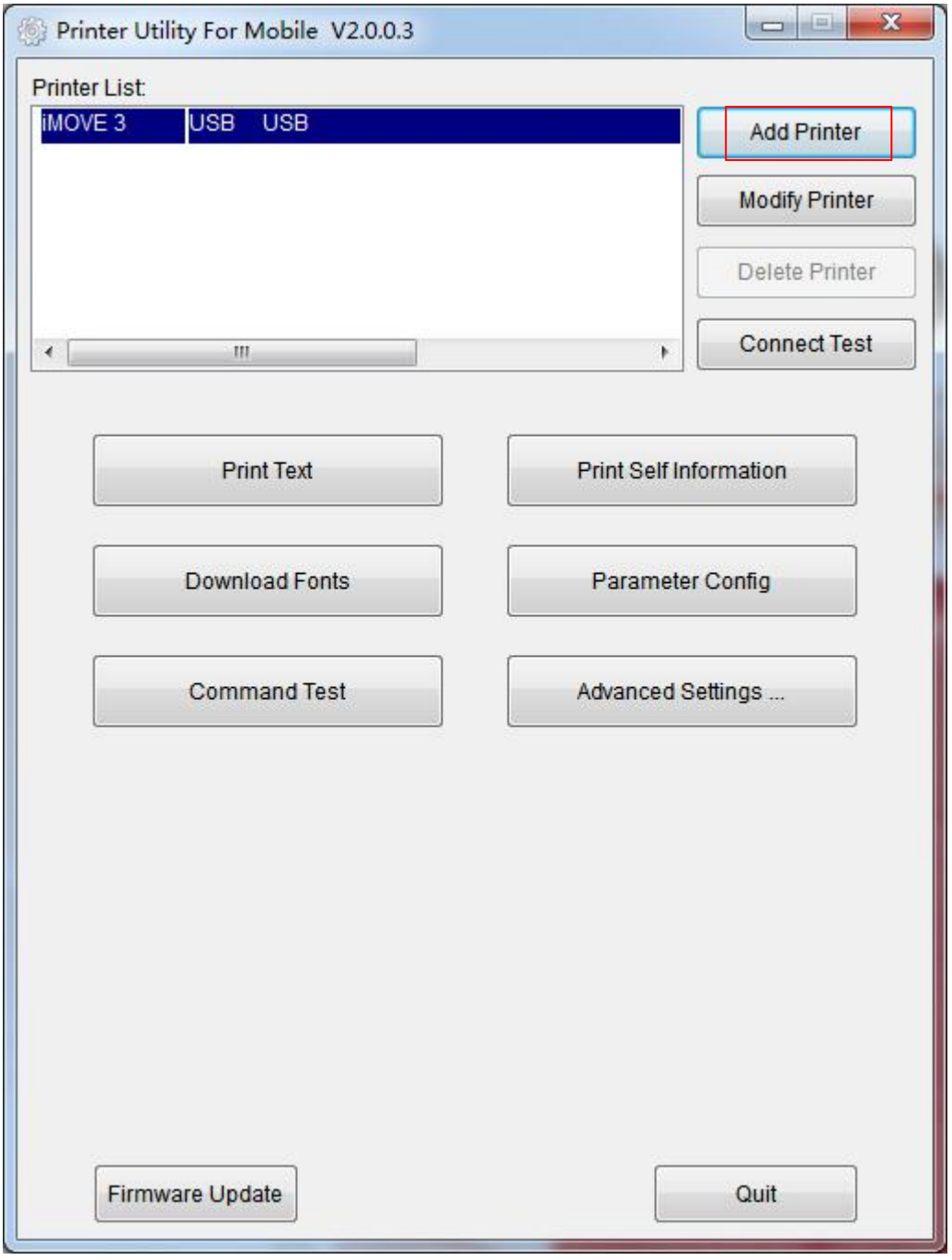
Warning: Under different operating systems, the screen has slight difference. Please operate it according to the tips. Take Windows 7 as example.

Unzip the compressed package file, then open the folder, click to open the Printer Utility For Mobile.

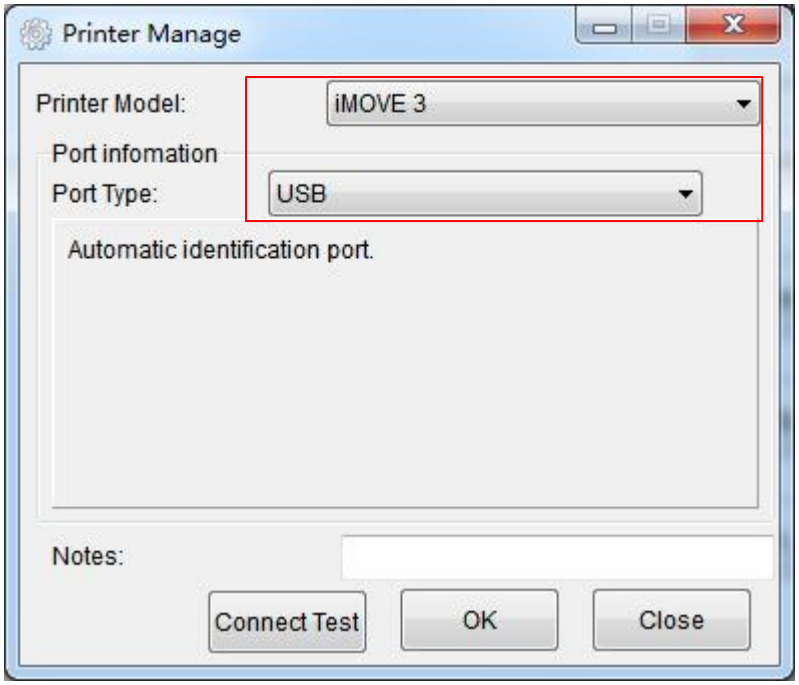


7.3.1 Add Printer

1. Click “Add Printer”.



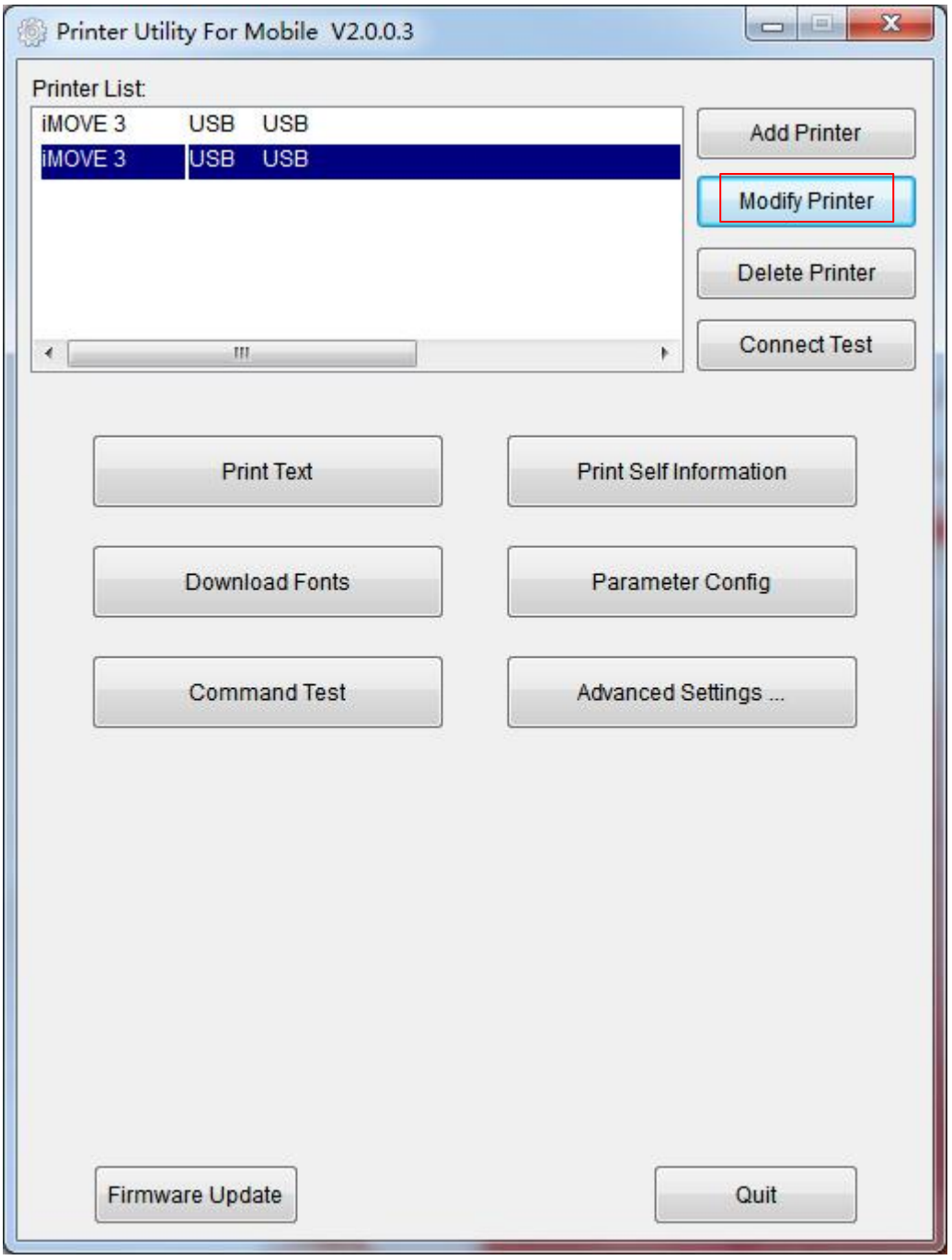
2. Choose the right printer model and port type, then click “OK”.



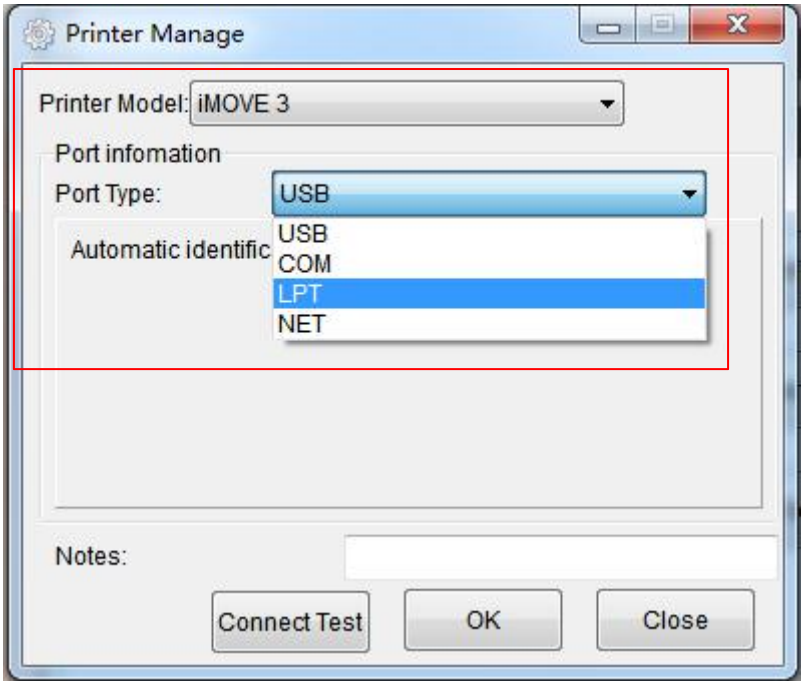
3. “Add printer” is finished.

7.3.2 Modify Printer

1. Choose the printer which you want to modify in the list, then click "Modify Printer".



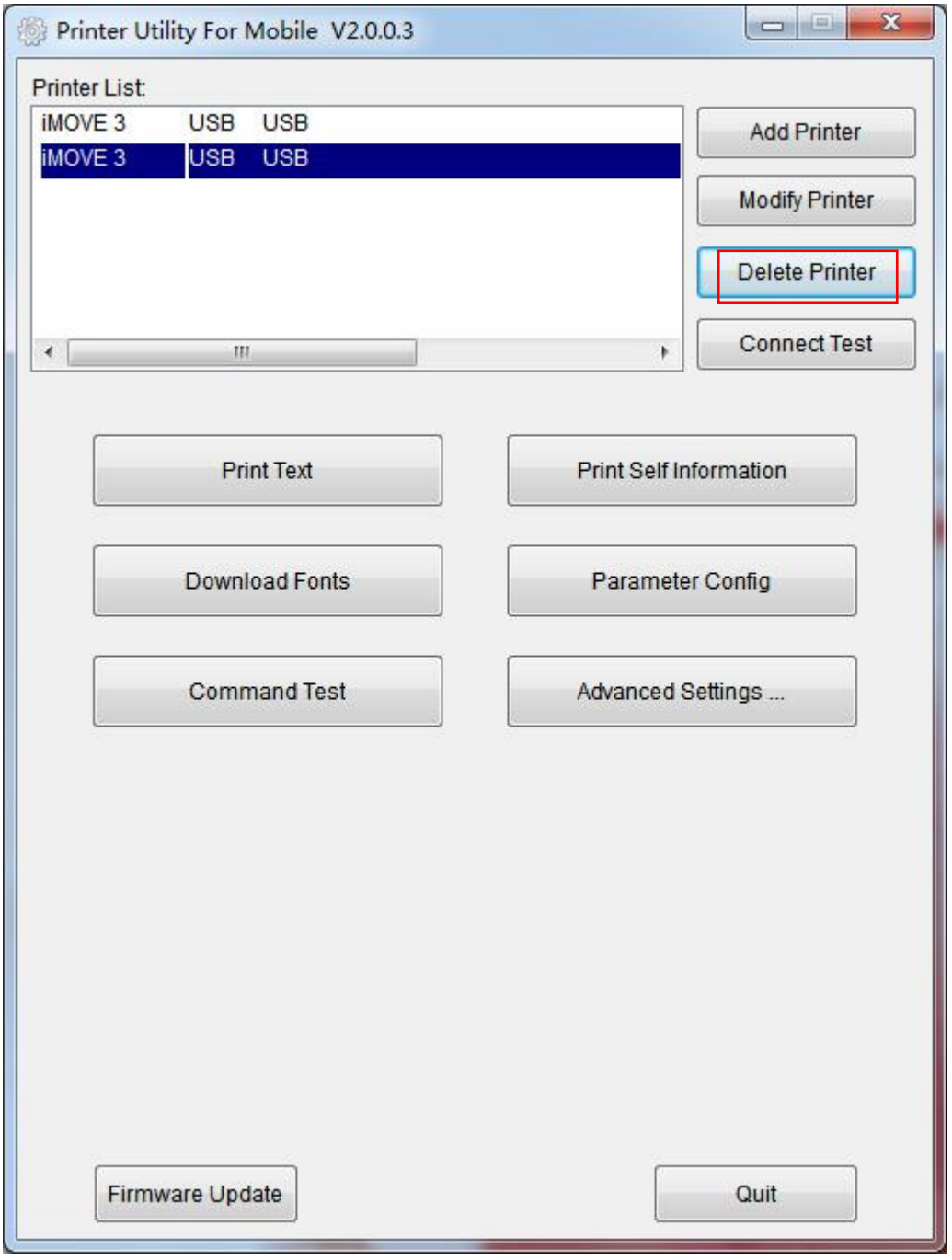
2. Choose the new model and new port, then click “OK”.



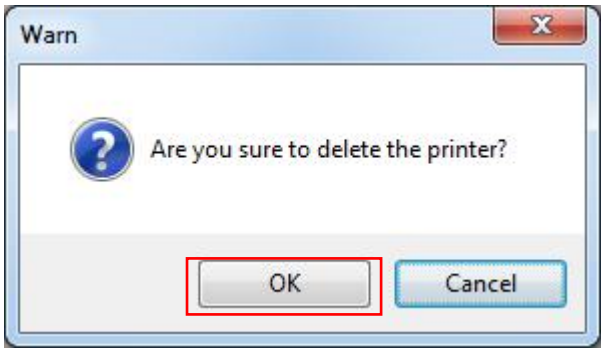
3. “Modify Printer” is finished.

7.3.3 Delete Printer

1. Choose the printer which you want to delete in the list, then click "Delete Printer".



2. Click “OK ”, then the printer is deleted.



7.3.4 Connection Test

1. Click “Connection Test”. If the connection is successful, it will appear the following window. If the connection is unsuccessful, please connect the printer with computer.

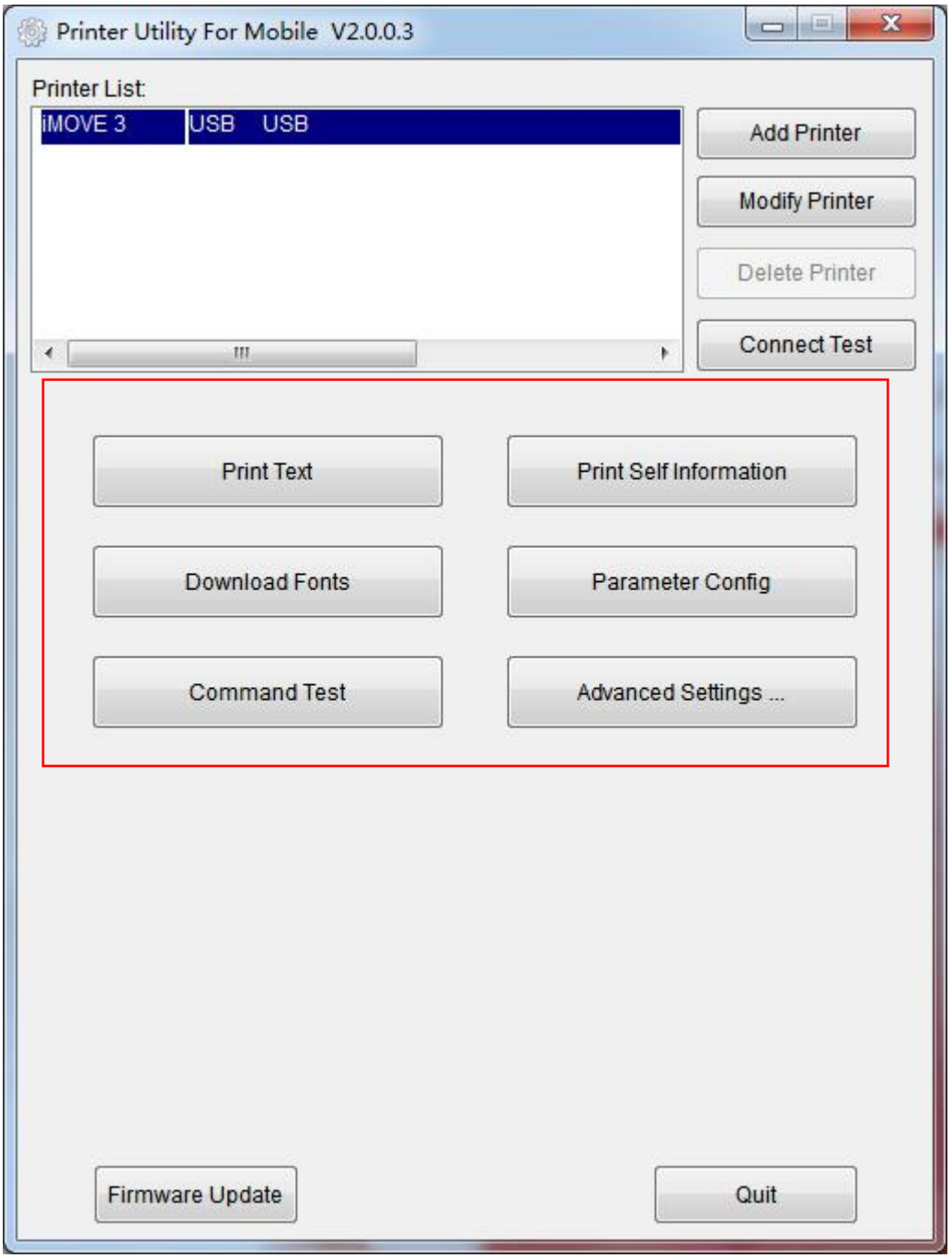
Note:

1) *Make sure printer is connected with computer and power on.*
2) *Make sure printer is loaded paper.*
3) *Before using the following function, carry out the “Connection Test” first.*

7.4 Functions

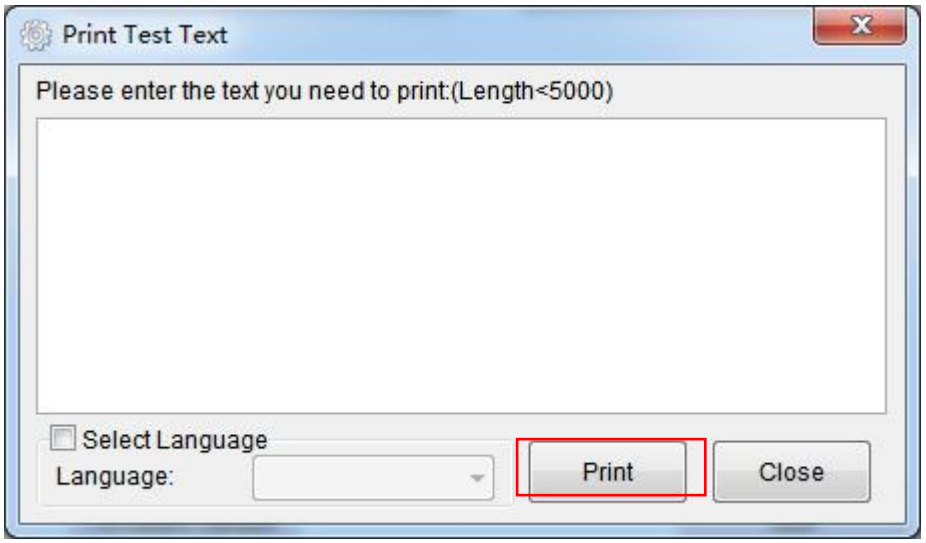
The function of this printer utility is as follows. Click the button and printer will execute the appropriate action.

Note: The following display differs depending on the model you connected.



7.4.1 Print Text

1. Click “Print Text”, enter the text you need to print, and then click “Print”.

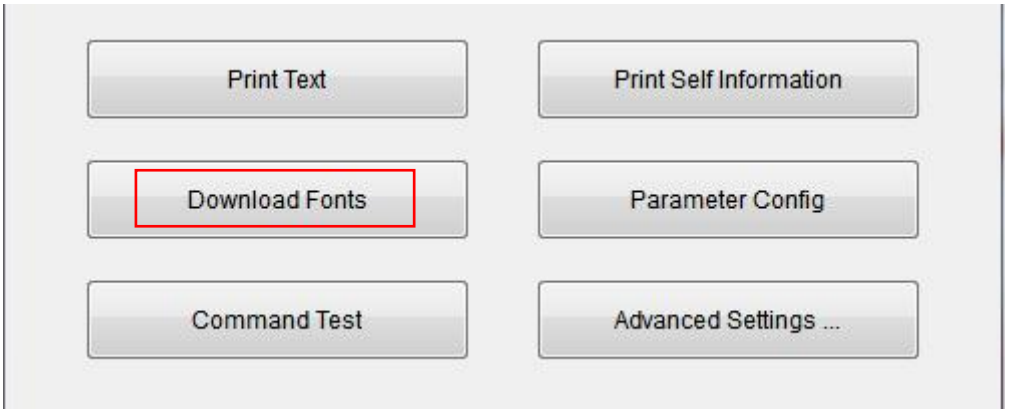


7.4.2 Print Self Information

Click “Print Self Information” and the printer will print out the setting information.

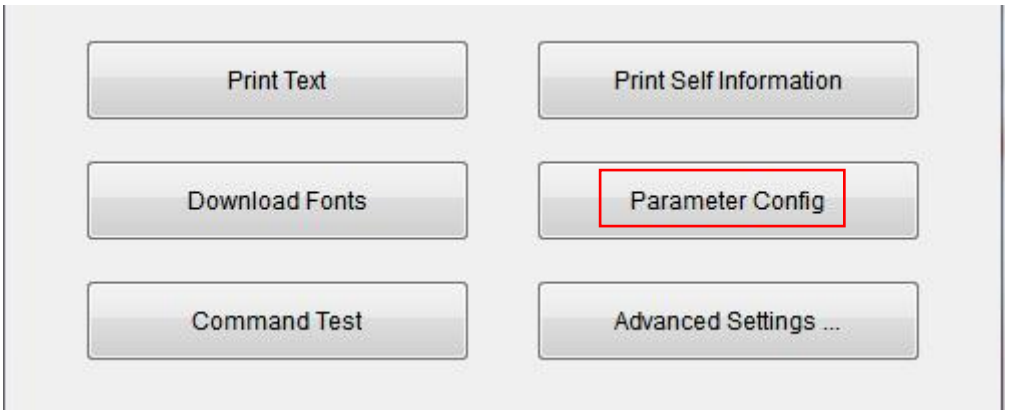
7.4.3 Download Fonts

Click “Download Fonts”, choose the font from existing files and click “Download”.

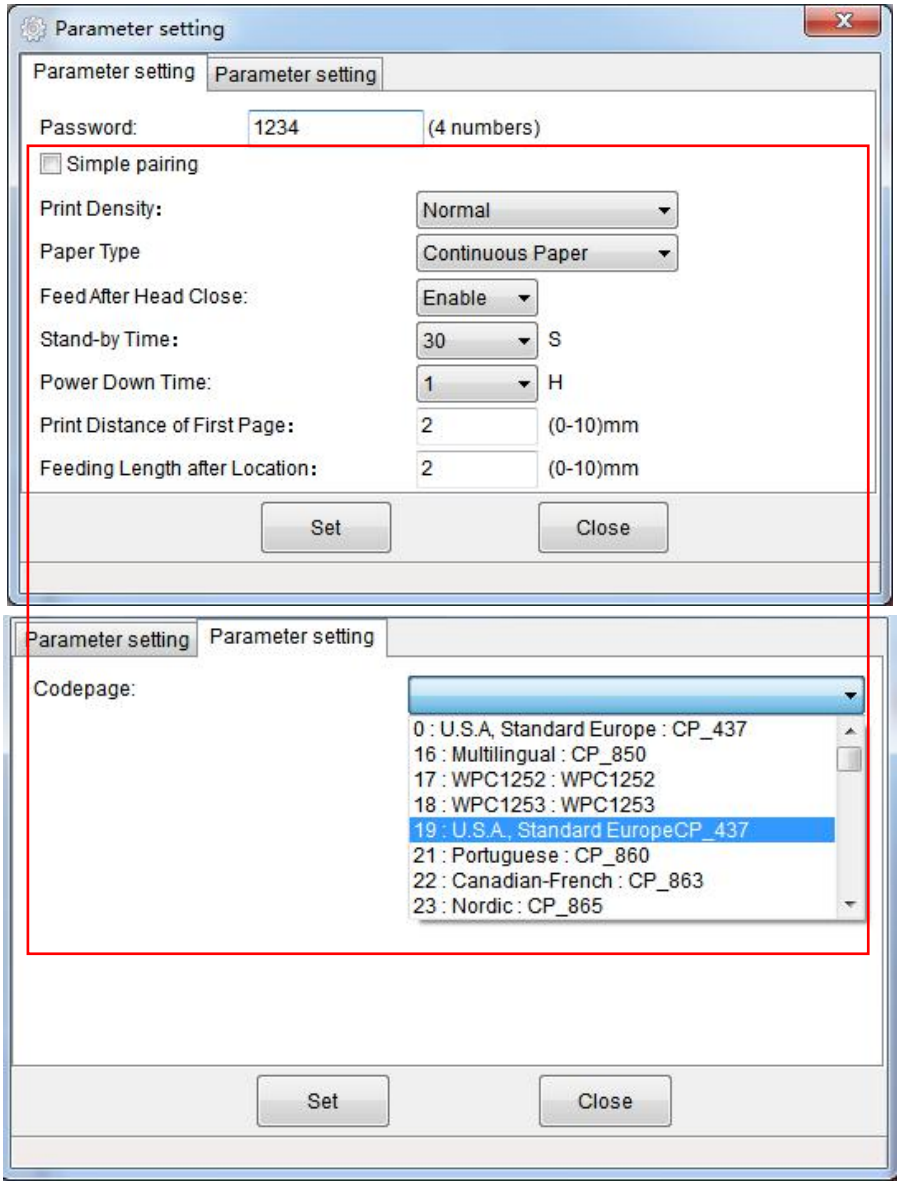


7.4.4 Parameter Config

1. Click “Parameter Config”.

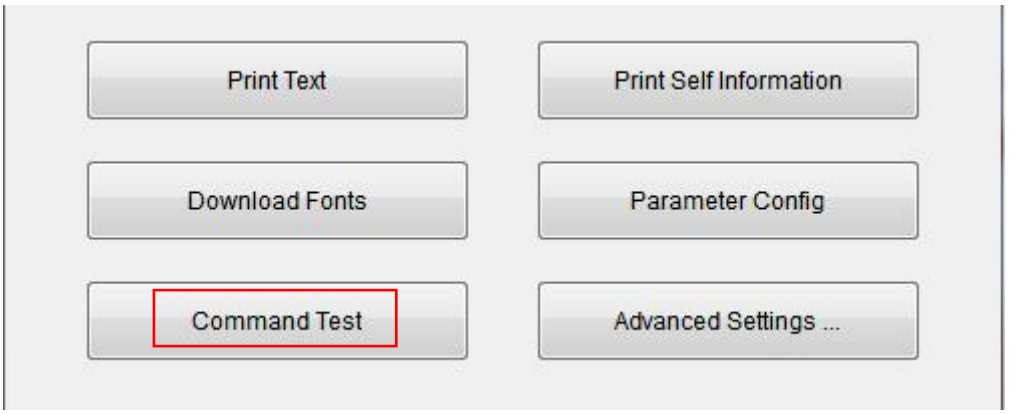


2. Set the following parameters as need, such as “Password”, “Print Density”, “Paper Type”, “Feed After Head Close”, “Stand-by Time”, “Power Down Time”, “Print Distance of First Page”, “Feeding Length after Location” and “Codepage”.

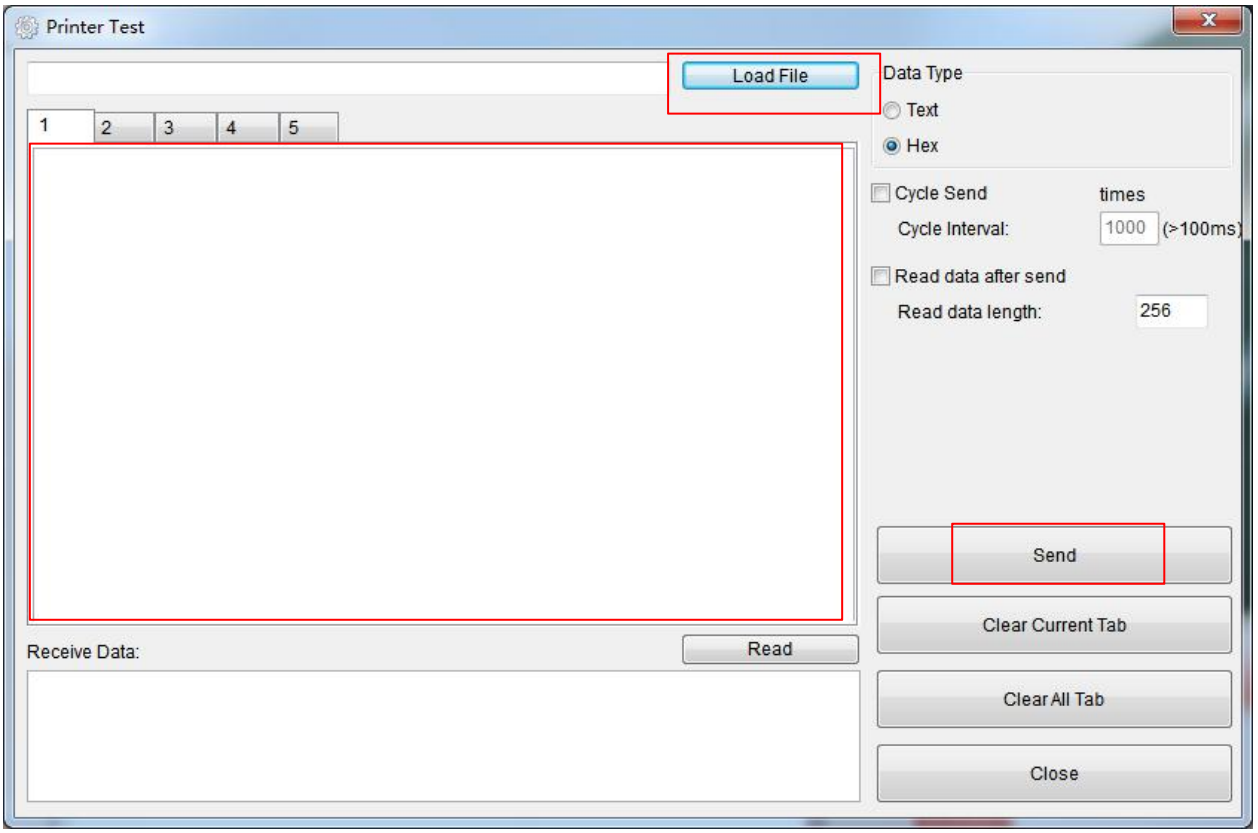


7.4.5 Command Test

1. Click “Command Test”.

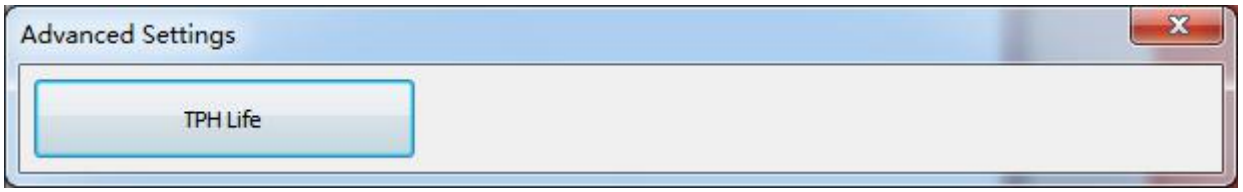


2. Load file or input the data in the input box and click “Send” to print the test text.



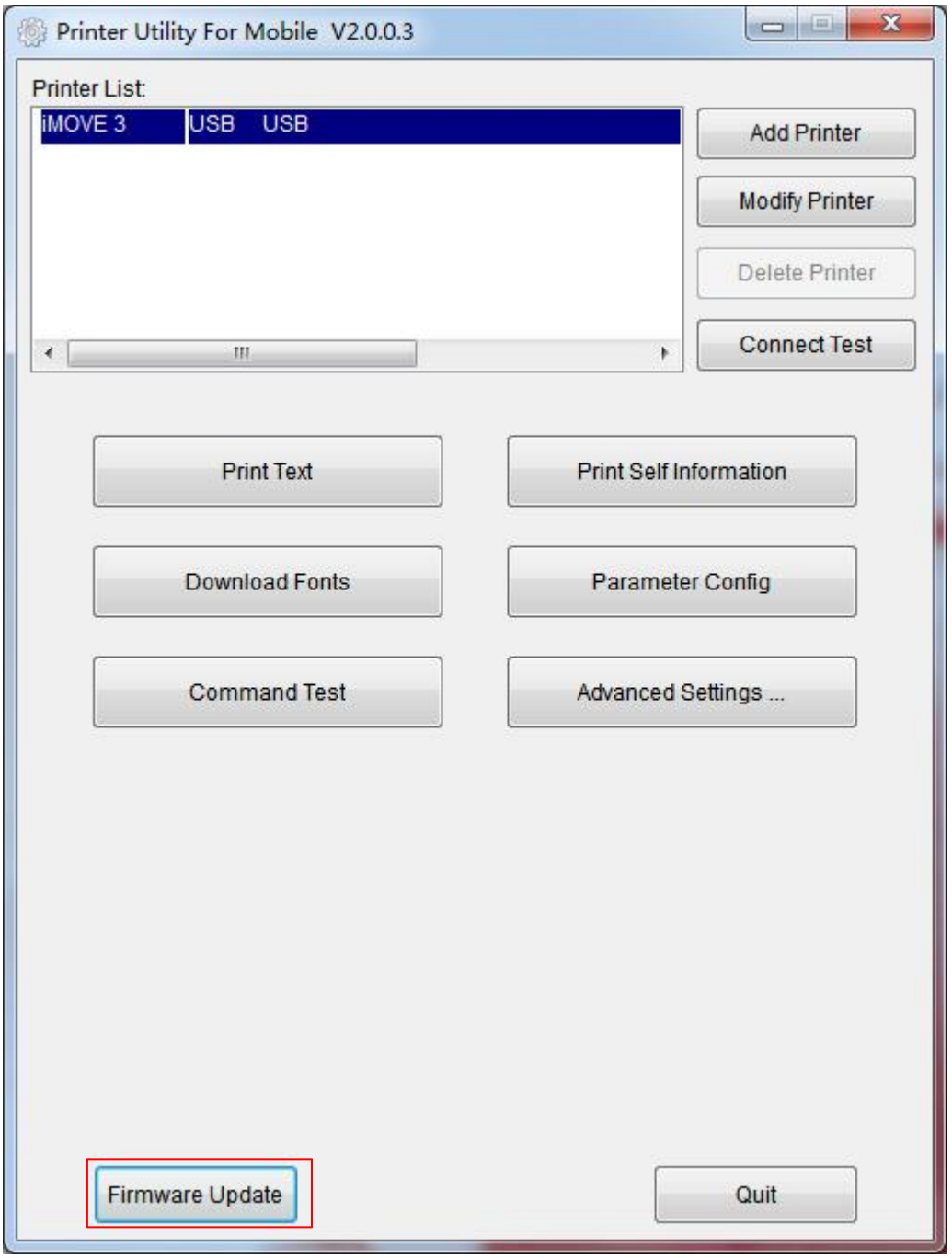
7.4.6 Advanced Settings

Click “Advanced Settings”, and click “TPH Life” to get the life of TPH.

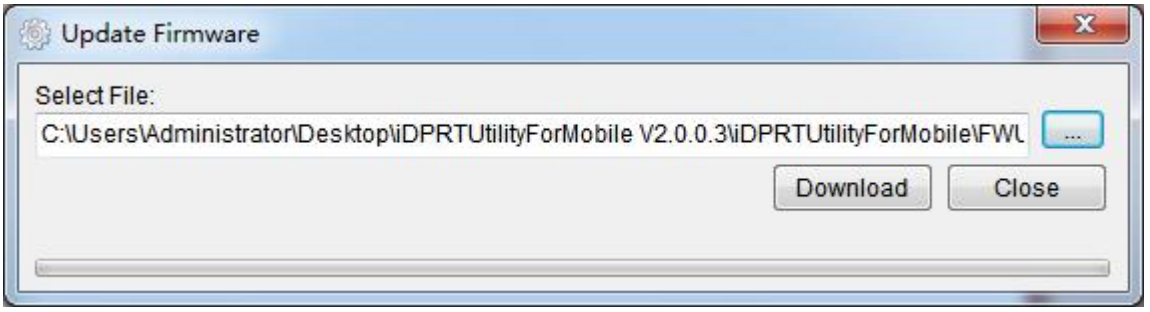


7.5 Firmware Update

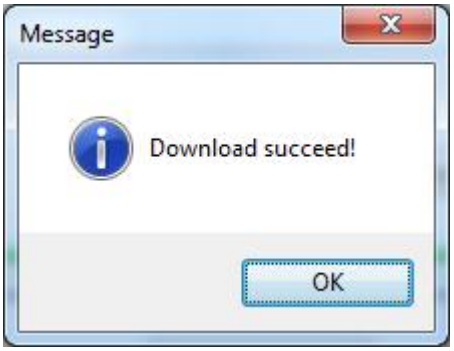
1. Click “Firmware Update”.



2. Select the existing file and click “Download”.



3. Update succeed and the printer will be restarted.



FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception,which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different
from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.